zenith

SERVICE MANUAL

Product Type: DVD VIDEO PLAYER
Chassis: DPM-4 (MD)
Manual Series: DVB352
Manual Part #: 3829RGN002K
Model Line: D
Product Year: 2003

Model Series:

DVB352

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Huntsville, Alabama 35824-1513

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SECTION 1

SUMMARY

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

IMPORTANT SAFETY NOTICE

This manual was prepared for use only by properly trained audio-video service technicians.

When servicing this product, under no circumstances should the original design be modified or altered without permission from Zenith Electronics Corporation. All components should be replaced only with types identical to those in the original circuit and their physical location, wiring and lead dress must conform to original layout upon completion of repairs.

Special components are also used to prevent x-radiation, shock and fire hazard. These components are indicated by the letter "x" included in their component designators and are required to maintain safe performance. No deviations are allowed without prior approval by Zenith Electronics Corporation.

Circuit diagrams may occasionally differ from the actual circuit used. This way, implementation of the latest safety and performance improvement changes into the set is not delayed until the new service literature is printed.

CAUTION: Do not attempt to modify this product in any way. Never perform customized installations without manufacturer's approval. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury.

Service work should be performed only after you are thoroughly familiar with these safety checks and servicing guidelines.

GRAPHIC SYMBOLS

The exclamation point within an equilateral triangle is intended to alert the service personnel to important safety information in the service literature.

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the service personnel to the presence of noninsulated "dangerous voltage" that may be of sufficient magnitude to constitute a risk of electric shock.

The pictorial representation of a fuse and its rating within an equilateral triangle is intended to convey to the service personnel the following fuse replacement caution notice:

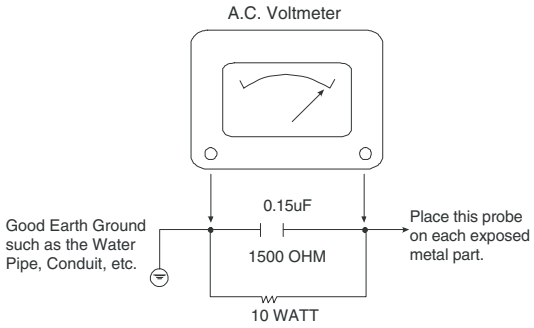
CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ALL FUSES WITH THE SAME TYPE AND RATING AS MARKED NEAR EACH FUSE.

SERVICE INFORMATION

While servicing, use an isolation transformer for protection from AC line shock. After the original service problem has been corrected, make a check of the following:

FIRE AND SHOCK HAZARD

1. Be sure that all components are positioned to avoid a possibility of adjacent component shorts. This is especially important on items trans-ported to and from the repair shop.
2. Verify that all protective devices such as insulators, barriers, covers, shields, strain reliefs, power supply cords, and other hardware have been reinstalled per the original design. Be sure that the safety purpose of the polarized line plug has not been defeated.
3. Soldering must be inspected to discover possible cold solder joints, solder splashes, or sharp solder points. Be certain to remove all loose foreign particles.
4. Check for physical evidence of damage or deterioration to parts and components, for frayed leads or damaged insulation (including the AC cord), and replace if necessary.
5. No lead or component should touch a high current device or a resistor rated at 1 watt or more. Lead tension around protruding metal surfaces must be avoided.
6. After reassembly of the set, always perform an AC leakage test on all exposed metallic parts of the cabinet (the channel selector knobs, antenna terminals, handle and screws) to be sure that set is safe to operate without danger of electrical shock. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST. Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner: Connect a 1500 ohm, 10 watt resistor, paralleled by a .15 mfd 150V AC type capacitor between a known good earth ground water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and .15 mfd capacitor. Reverse the AC plug by using a non-polarized adaptor and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.75 volts RMS. This corresponds to 0.5 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



TIPS ON PROPER INSTALLATION

1. Never install any receiver in a closed-in recess, cubbyhole, or closely fitting shelf space over, or close to, a heat duct, or in the path of heated air flow.
2. Avoid conditions of high humidity such as: outdoor patio installations where dew is a factor, near steam radiators where steam leakage is a factor, etc.
3. Avoid placement where draperies may obstruct venting. The customer should also avoid the use of decorative scarves or other coverings that might obstruct ventilation.
4. Wall- and shelf-mounted installations using a commercial mounting kit must follow the factory-approved mounting instructions. A product mounted to a shelf or platform must retain its original feet (or the equivalent thickness in spacers) to provide adequate air flow across the bottom. Bolts or screws used for fasteners must not touch any parts or wiring. Perform leakage tests on customized installations.
5. Caution customers against mounting a product on a sloping shelf or in a tilted position, unless the receiver is properly secured.
6. A product on a roll-about cart should be stable in its mounting to the cart. Caution the customer on the hazards of trying to roll a cart with small casters across thresholds or deep pile carpets.
7. Caution customers against using extension cords. Explain that a forest of extensions, sprouting from a single outlet, can lead to disastrous consequences to home and family.

SERVICING PRECAUTIONS

CAUTION : Before servicing the DVD covered by this service data and its supplements and addends, read and follow the *SAFETY PRECAUTIONS. NOTE* : if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions.
Remembers Safety First:

General Servicing Precautions

1. Always unplug the DVD AC power cord from the AC power source before:
   (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
   (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
   (3) Connecting a test substitute in parallel with an electrolytic capacitor.
   Caution : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Do not spray chemicals on or near this DVD or any of its assemblies.

3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator.
   Unless specified otherwise in this service data, lubrication of contacts is not required.

4. Do not defeat any plug/socket B+ voltage interlocks with whitch instruments covered by this service manual might be equipped.

5. Do not apply AC power to this DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are cerrectly installed.

6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.
Note 1 : Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.
The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

3. Use only a grouned-tip soldering iron to solder or unsolder ES devices.

4. Use only an anti-static solder removal device. Some solder removal devices not classified a “anti-static” can generate electrical charges sufficient to damage ES devices.

5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.

6. Do not remove a replacement ES device from its protec tive package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).

7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

SPECIFICATIONS

• GENERAL

Power requirements	AC 120 V, 60 Hz
Power consumption	14W
Dimensions (Approx.)	440 X 80 X 425 mm (17.3 x 3.1 x 16.7 inches) (w x h x d)
Weight (Approx.)	5.1 kg (11.2 lbs)
Operating temperature	5˚C to 35˚C (41˚F to 95˚F)
Operating humidity	5 % to 90 %

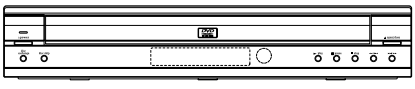
• SYSTEM

Laser	Semiconductor laser, wavelength 650 nm
Signal system	NTSC
Frequency response	DVD (PCM 96 kHz): 8 Hz to 44 kHz
	DVD (PCM 48 kHz): 8 Hz to 22 kHz
	CD: 8 Hz to 20 kHz
Signal-to-noise ratio	More than 100dB (ANALOG OUT connectors only)
Harmonic distortion	Less than 0.008%
Dynamic range	More than 100 dB (DVD)
	More than 95 dB (CD)

• OUTPUTS

VIDEO OUT	1 Vp-p 75 Ω, negative sync, RCA jack x 1
S-VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, negative sync, Mini DIN 4-pin x 1
	(C) 0.3 V (p-p) 75 Ω
COMPONENT VIDEO OUT	(Y) 1.0 V (p-p), 75 Ω, negative sync, RCA jack x 1
	(Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
Audio output (digital audio)	0.5 V (p-p), 75 Ω, RCA jack x 1
Audio output (analog audio)	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 1

FRONT VIEW (DVB352)



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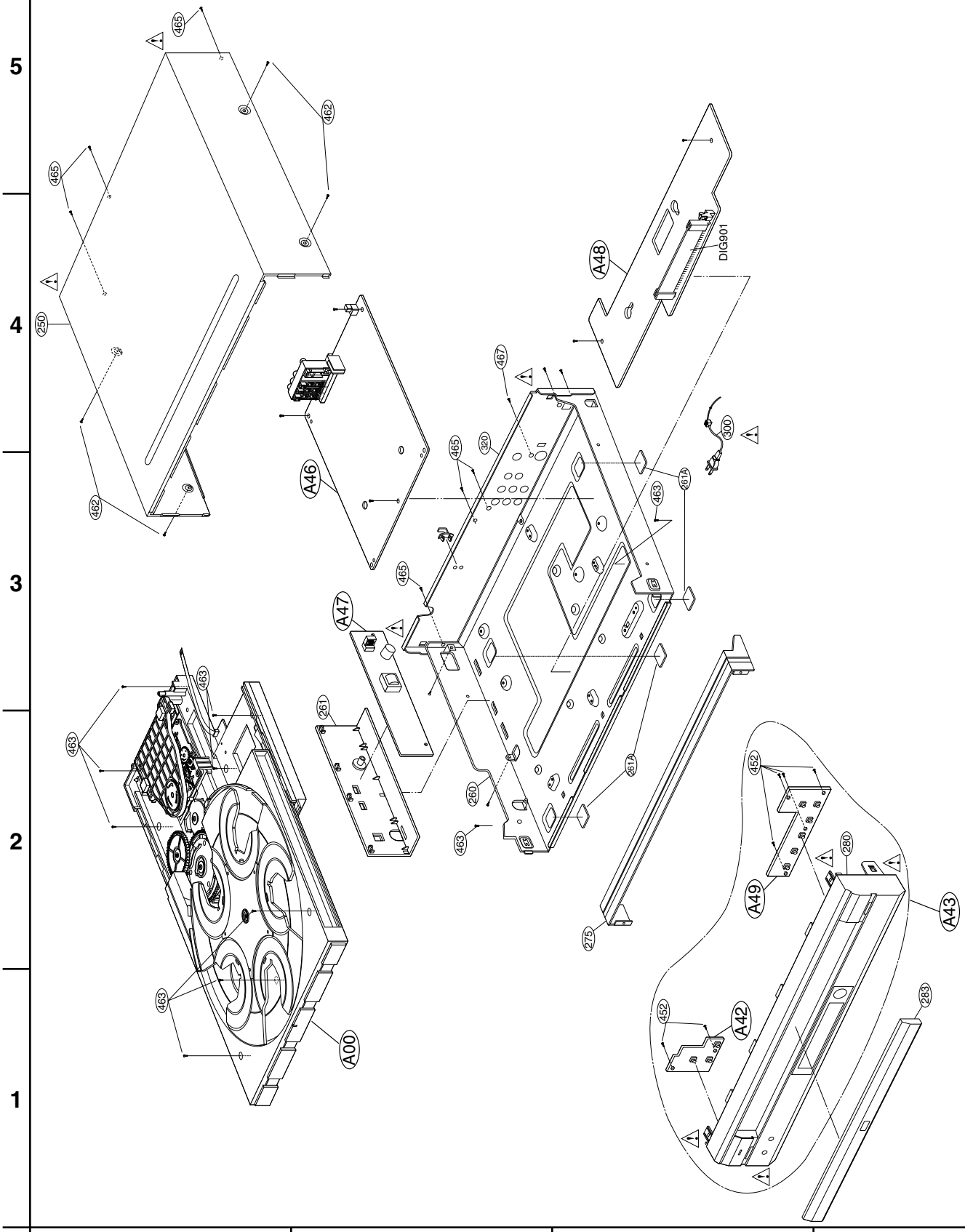
EXPLODED VIEWS

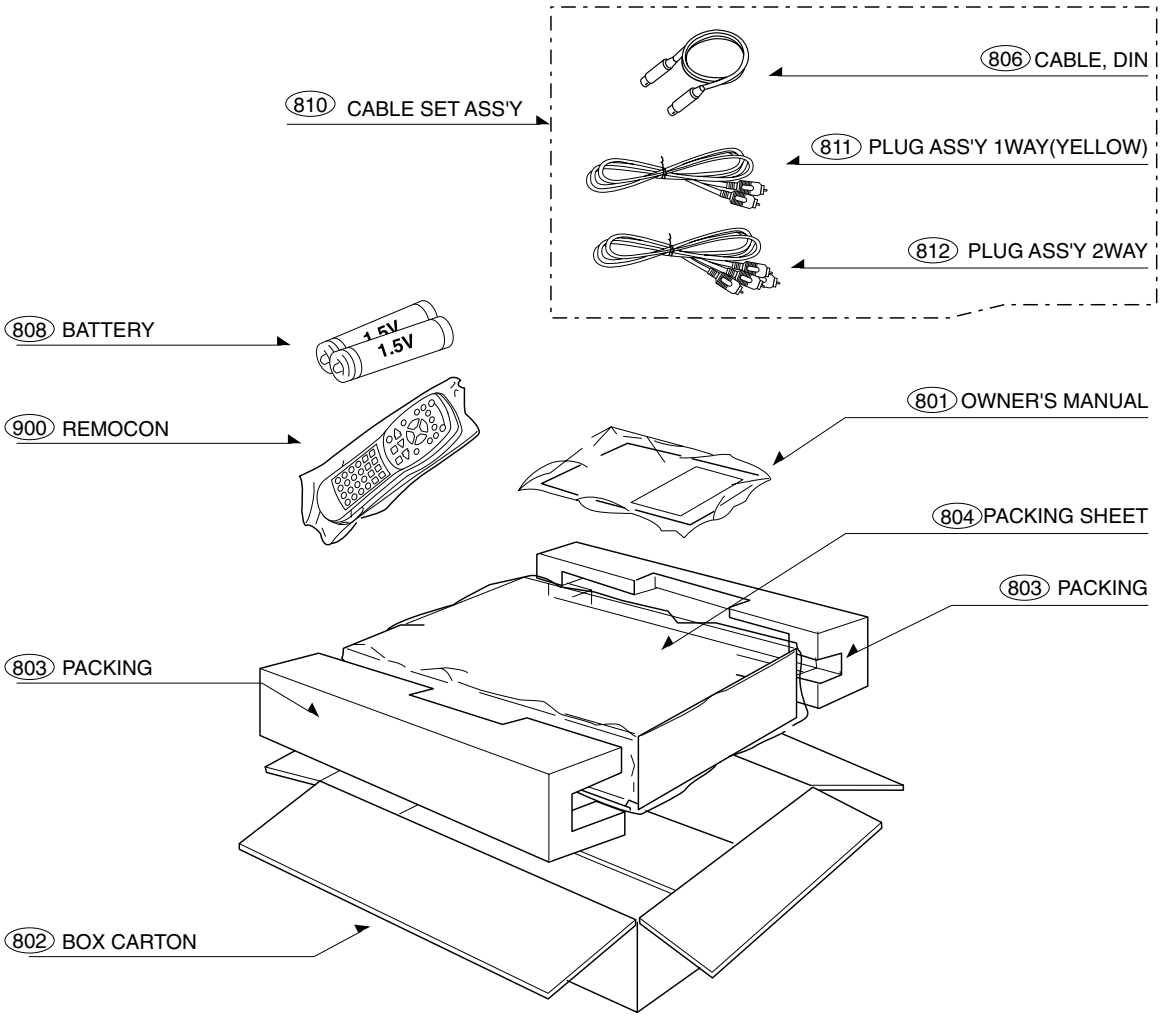
1. Cabinet and Main Frame Section



• Cabinet and Main Frame Section Part List

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION							
		A42	6871R-5097A	O	PWB(PCB) ASSEMBLY,TOTAL	DM6000 SH KEY1	
		A43	3501RF4030L	O	BOARD ASSEMBLY	DVD DM7912NM HA1UZZ FRONT	
		A46	6885R-0700A	O	SUB PWB(PCB) ASSEMBLY	DM7912NM HA1UZZ 55(U),53(S),00	
		A47	6871R-6857A	O	PWB(PCB) ASSEMBLY,TOTAL	DM7000 POWER	
		A48	6871R-5096A	O	PWB(PCB) ASSEMBLY,TOTAL	DM6000 SH TIMER	
		A49	6871R-5098B	O	PWB(PCB) ASSEMBLY,TOTAL	DM6912N HA1UZZ 5 SLIM KEY2 ZEN	
PARTS SECTION							
		250	3111R-D001D	O	CASE ASSEMBLY	DM6912N HA1UZZ TOP	
		260	3140R-0056A	O	CHASSIS	DVD DM6000 MAIN	NSP
		261A	5040R-0069D	O	RUBBER	FOOT(SILICONE SPONGE DS-08 T=	
		261	4930R-0350A	O	HOLDER		
		275	4930R-0351A	O	HOLDER	DVD DM6000 BRACKET	
		280	3721R-F300L	O	PANEL ASSEMBLY,FRONT[NORMAL PA	DM7912NM HA1UZZ	NSP
		283	3581R-T067G	O	DOOR ASSEMBLY	DVD DM7912NM HA1UZZ TRAY	
⚠		300	6410RAHX02B	O	POWER CORD	SP-120P/JL001 CHAUS/JULIAN UL/	
		320	3720R-D068W	O	PANEL,VIDEO	DVD DM7912NM HA1UZZ PRESS BACK	
SCREW							
		452	353-051A	O	SCREW	SPECIAL	
		463	353-051G	O	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		465	353-046K	O	SCREW	SPECIAL (3X10 B.K)	
		467	353-046N	O	SCREW,DRAWING	SPECIAL(3X8 BK.)	

2. Packing Accessory Section



• Packing Accessory Section Part List

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RS0060B	O	INSTRUCTION ASSEMBLY	DVD DM7912NM HA1UZZ	
		802	3890R-H819L	O	BOX	DM7921PM HA1UZZ SWM3-A 1.472 4	
		803	3920R-E063A	O	PACKING,CASING	DM6000S 0.02 120 EPS 4 615 128	
		804	292-053D	O	BAG	LVP-1	NSP
		806	6850R-DDA82	O	CABLE,DIN	MDC-18-MMBS1-0 S-VHS SM TECH 1	
		808	841-0021	O	BATTERY,MN	ER03X HI WATT 1.5V .MA/H AAA	
		810	6851R-0033A	O	CABLE ASSEMBLY	1WAY(Y) + 2WAY(R/W) 1.8M + S-V	
		811	6611R1D003A	O	PLUG ASSEMBLY	1WAY RC1-18RRBS1-0 FREE OF CD	
		812	6611R2D003A	O	PLUG ASSEMBLY	2WAY RC2-18RRBS1-0 FREE OF CD_	
		900	6711R1N104D	O	REMOTE CONTROLLER ASSEMBLY	N6 NOR DM7912NM HA1UZZ ZENITH	

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ELECTRICAL

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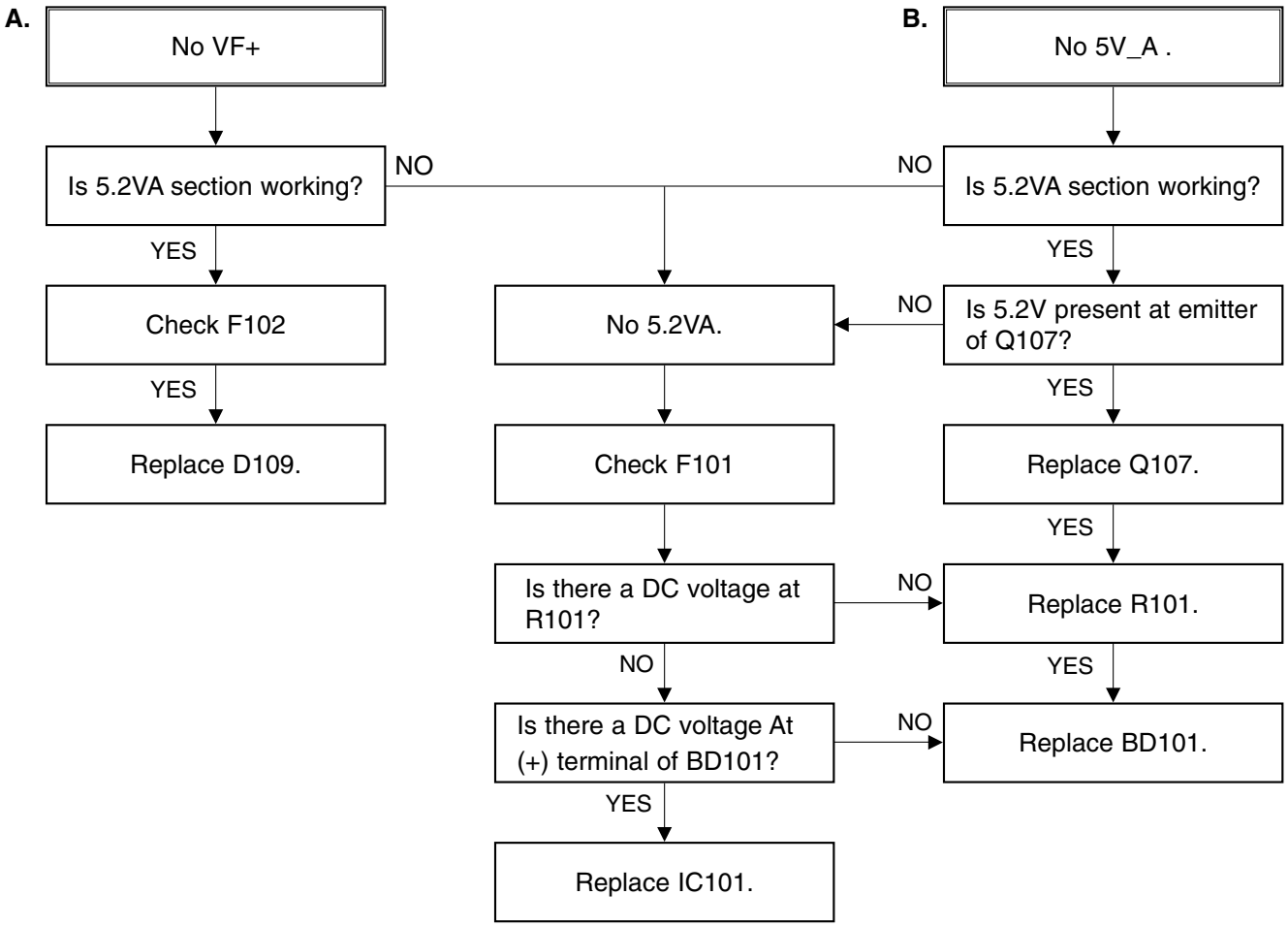
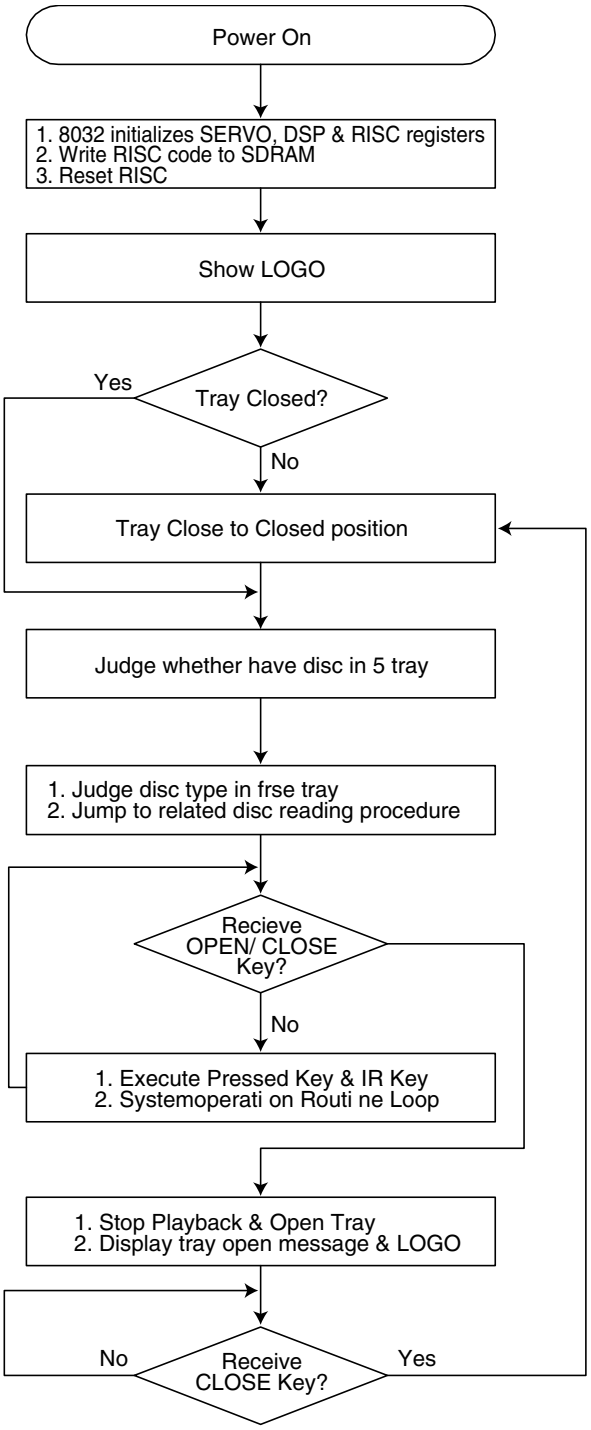
ELECTRICAL TROUBLESHOOTING GUIDE

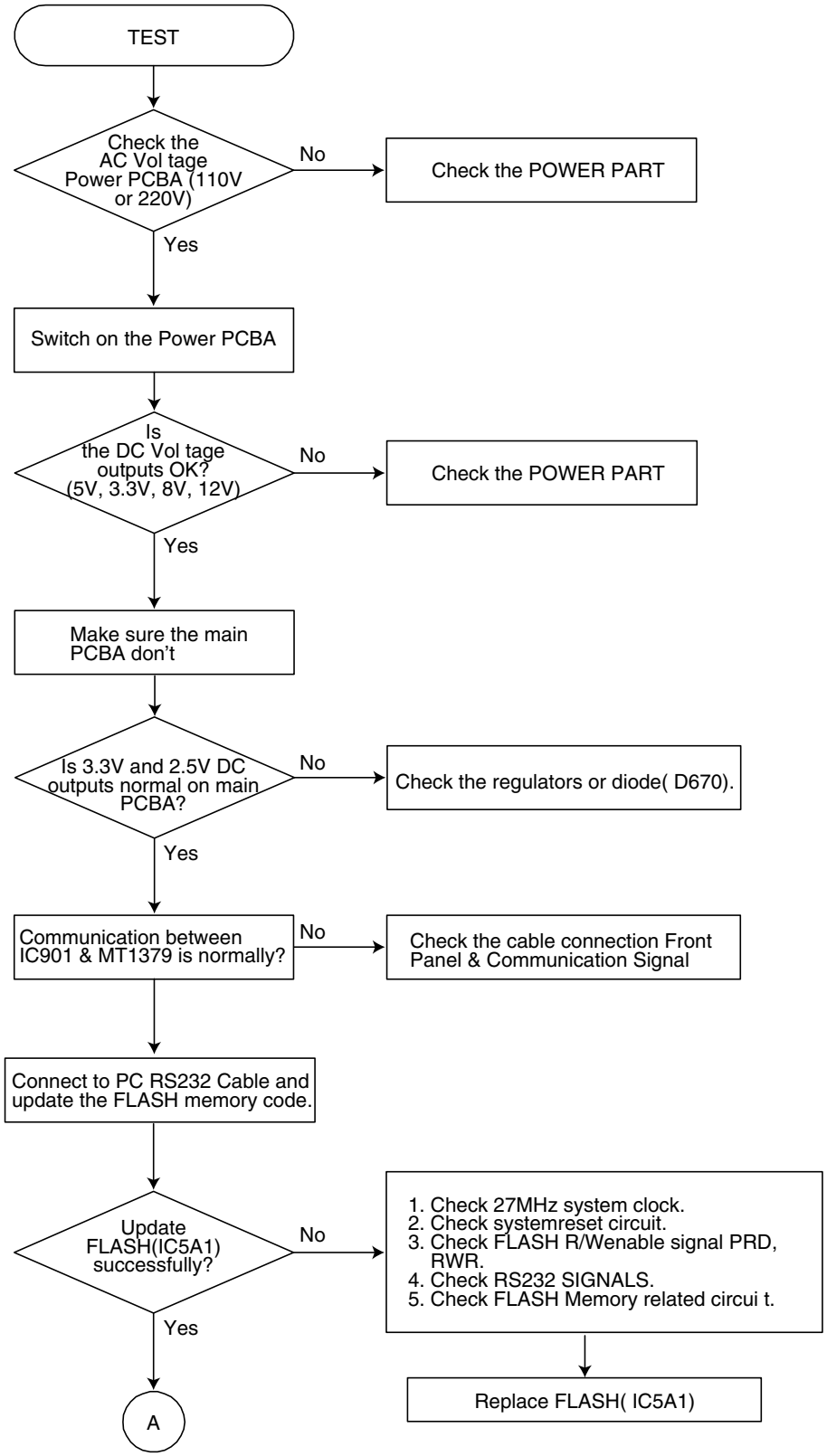
1. Power check flow

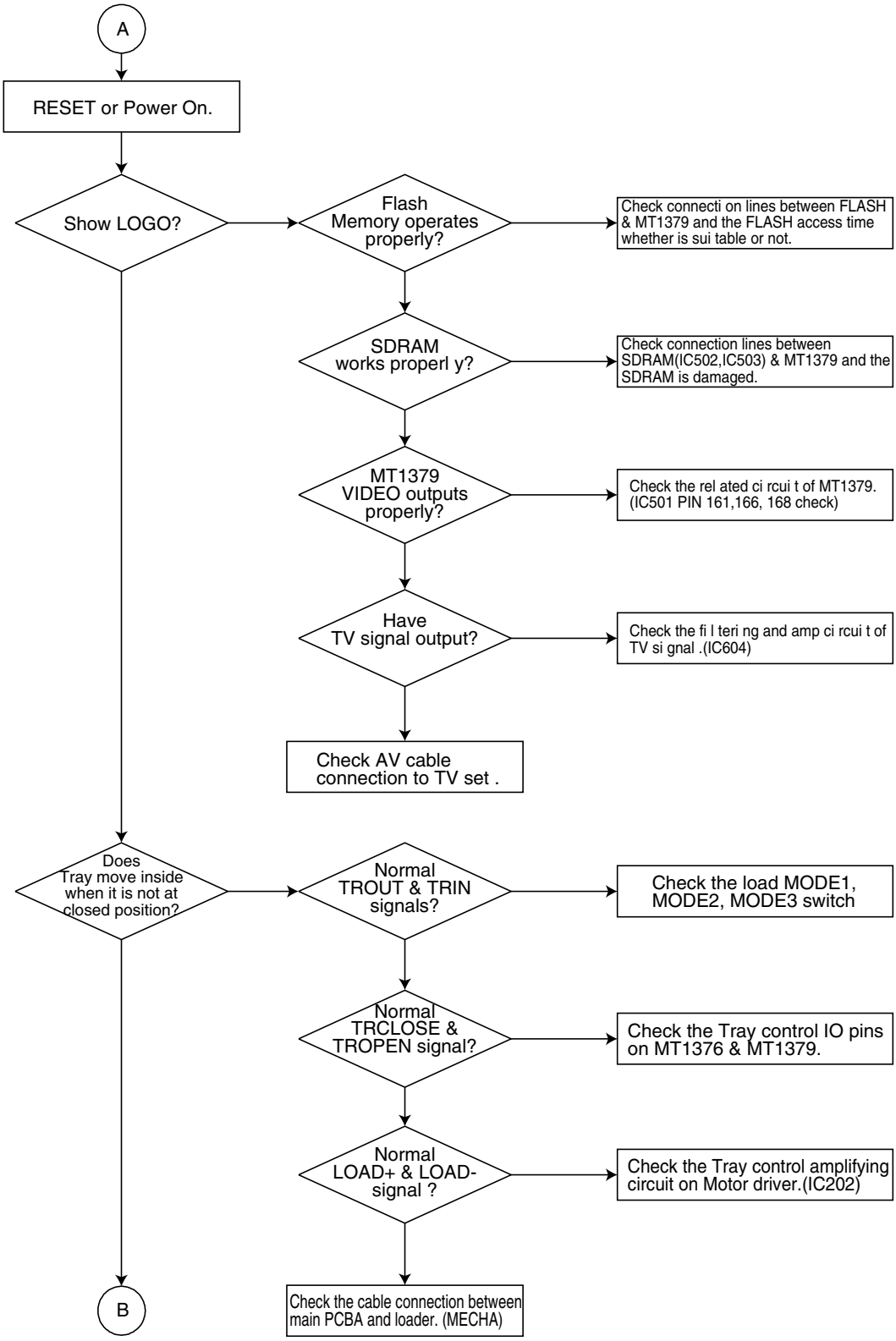


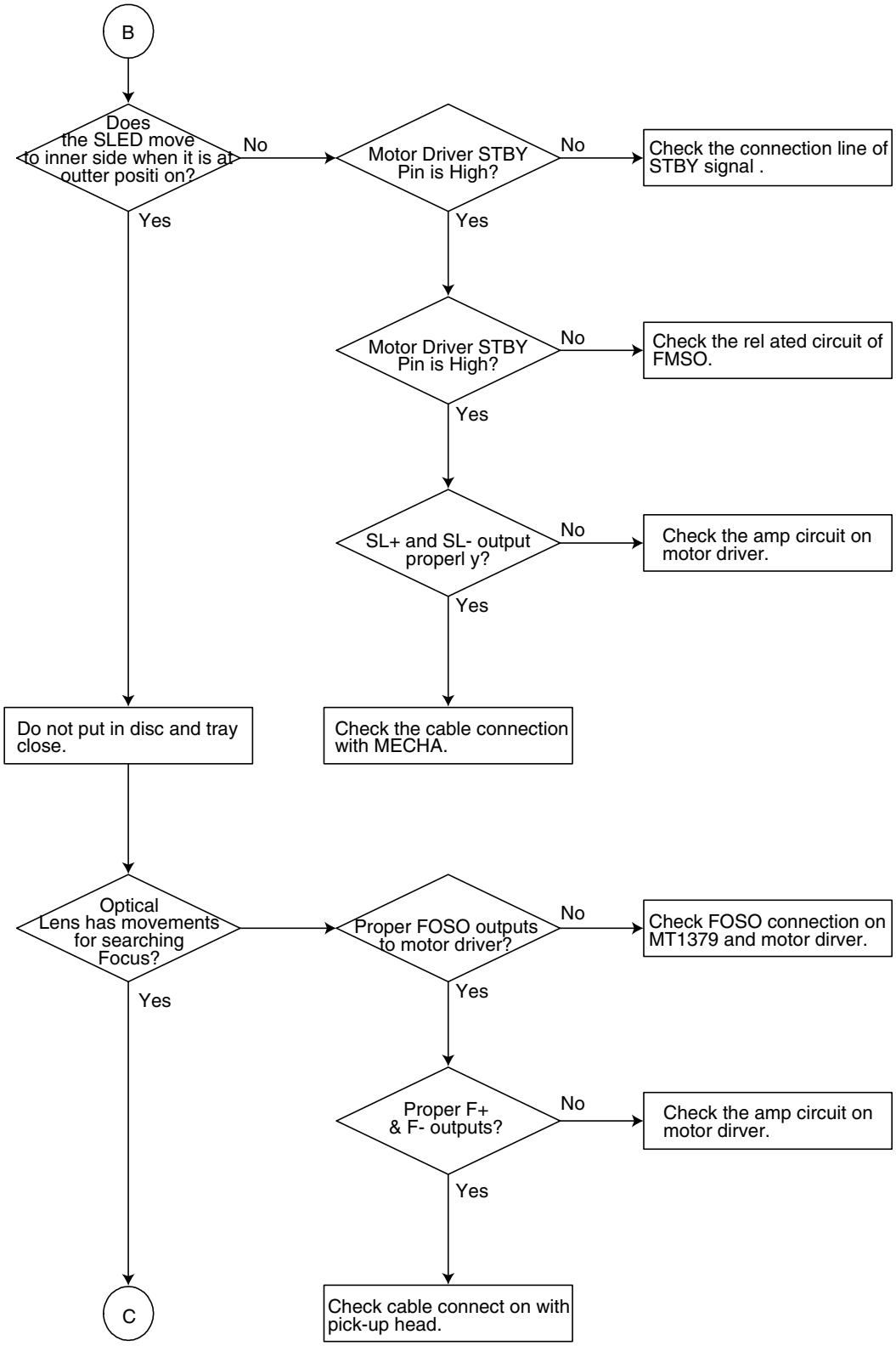
2. System operation flow

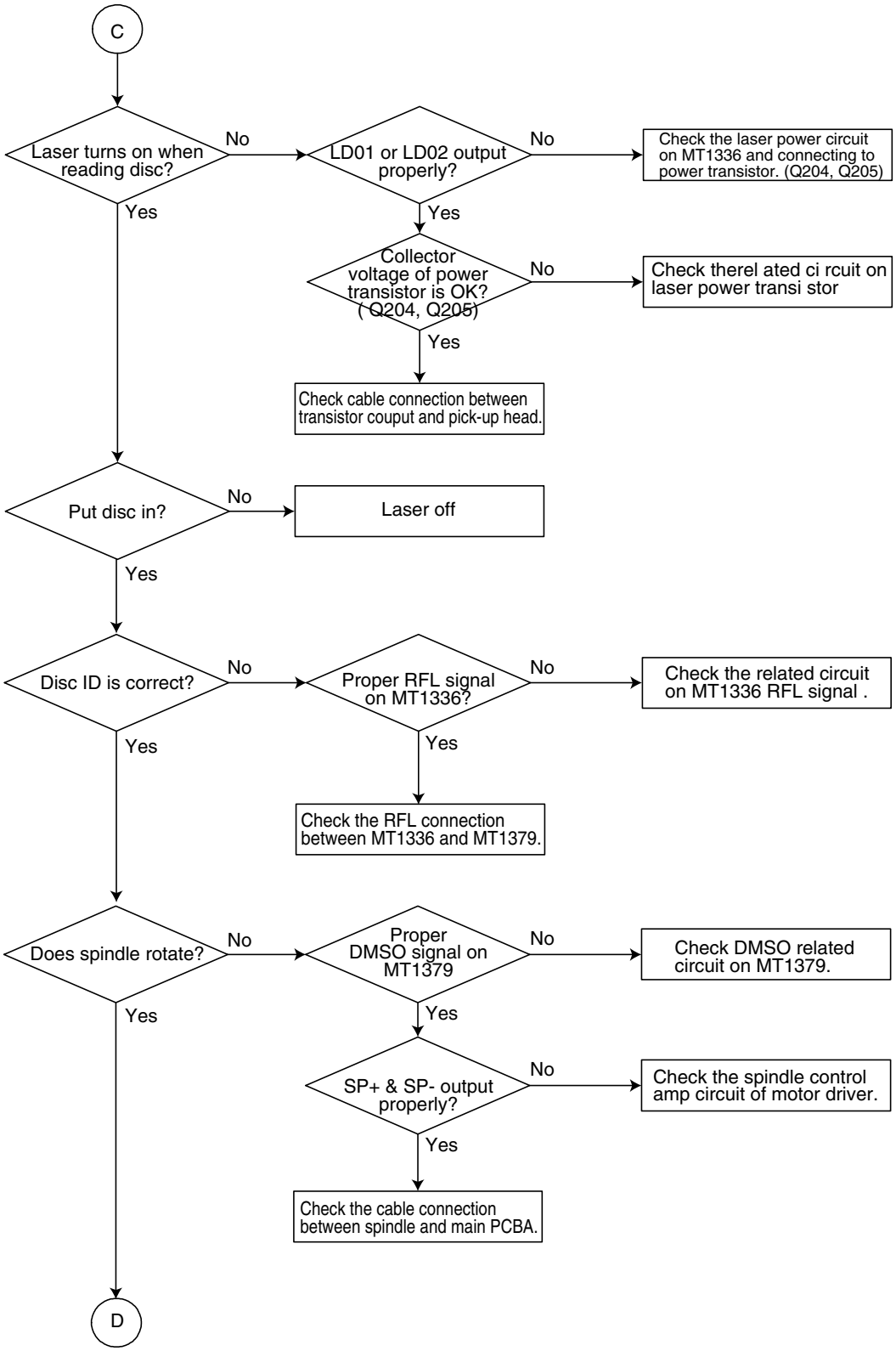


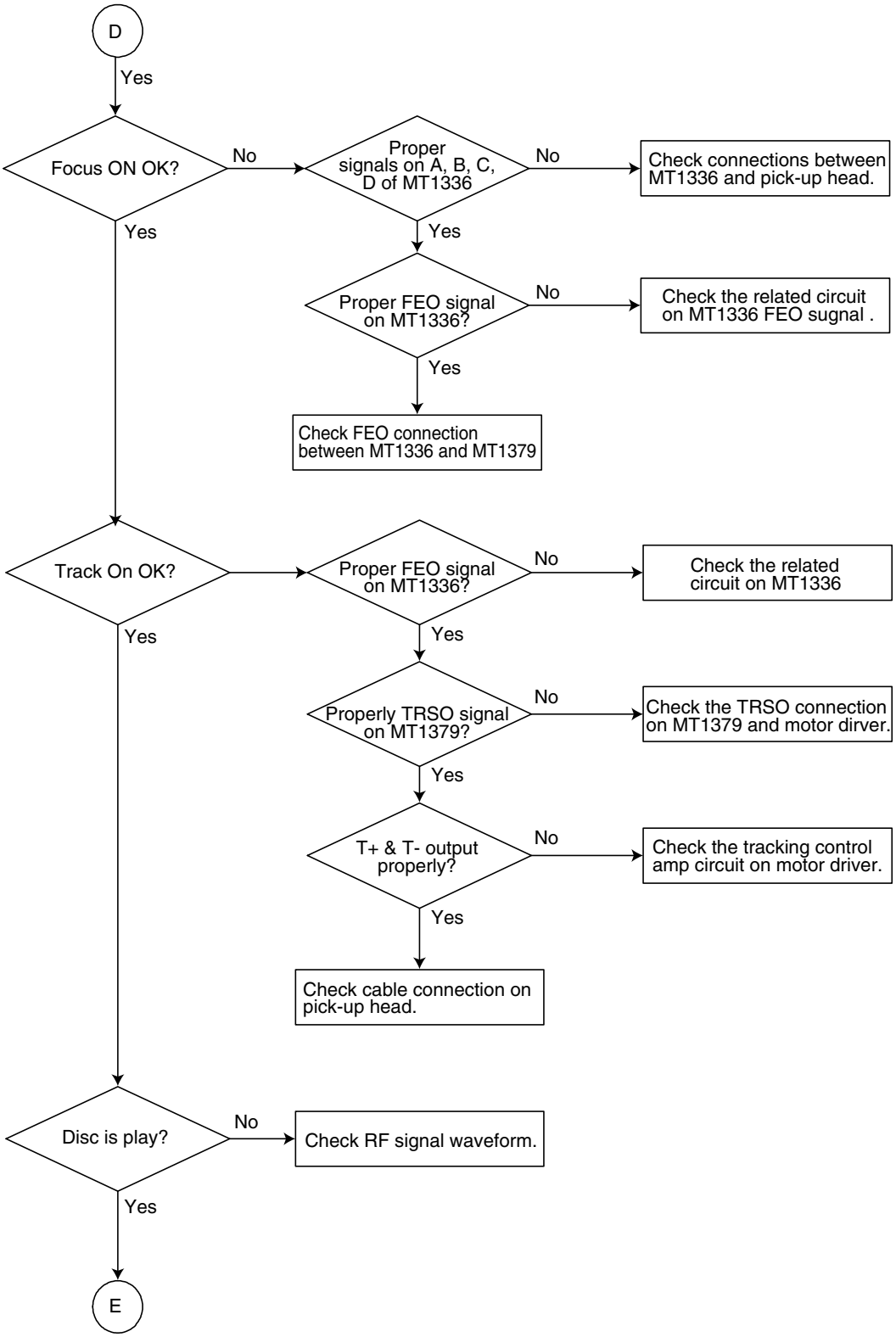
3. Test & debug flow

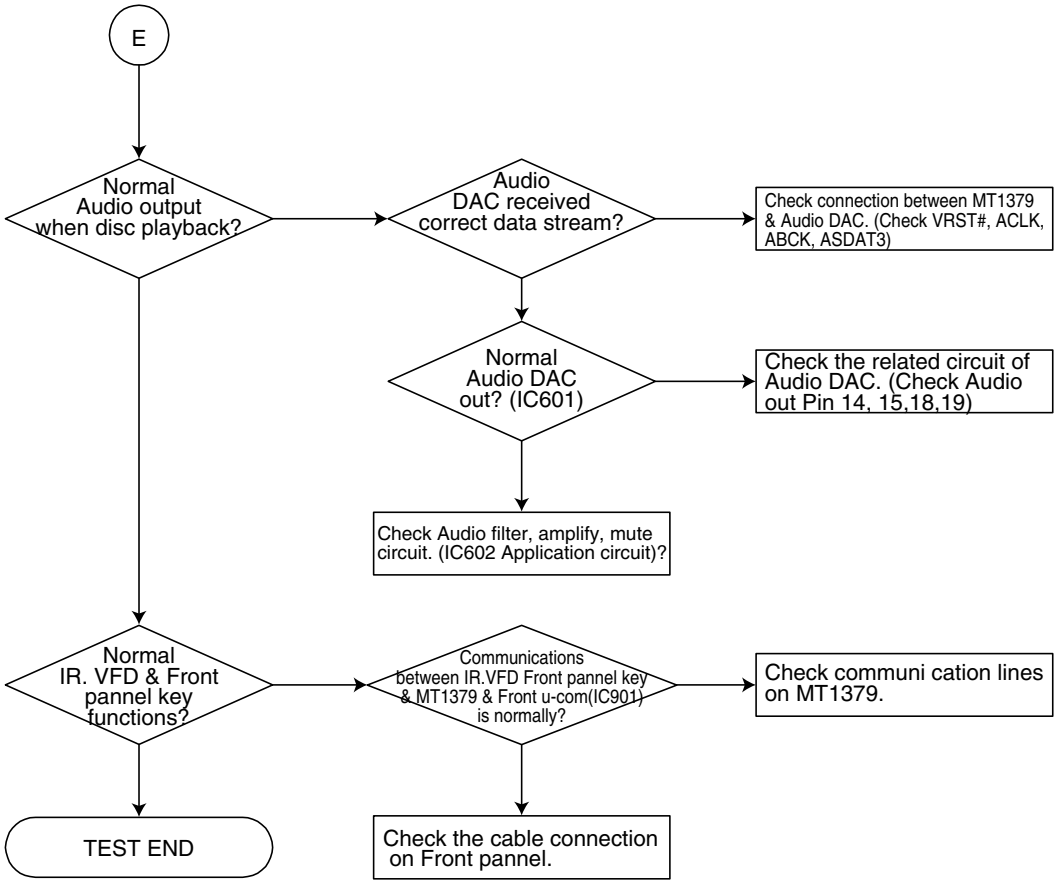

TEST
Check the AC Vol tage Power PCBA (110V or 220V)
No
Check the POWER PART
Yes
Switch on the Power PCBA
Is the DC Vol tage outputs OK? (5V, 3.3V, 8V, 12V)
No
Check the POWER PART
Yes
Make sure the main PCBA don't
Is 3.3V and 2.5V DC outputs normal on main PCBA?
No
Check the regulators or diode(D670).
Yes
Communication between IC901 & MT1379 is normally?
No
Check the cable connection Front Panel & Communication Signal
Connect to PC RS232 Cable and update the FLASH memory code.
Update FLASH(IC5A1) successfully?
No
1. Check 27MHz system clock.
2. Check systemreset circuit.
3. Check FLASH R/Wenable signal PRD, RWR.
4. Check RS232 SIGNALS.
5. Check FLASH Memory related circui t.
Replace FLASH(IC5A1)
Yes
A


A
RESET or Power On.
Show LOGO?
Flash Memory operates properly?
Check connecti on lines between FLASH & MT1379 and the FLASH access time whether is sui table or not.
SDRAM works properl y?
Check connection lines between SDRAM(IC502,IC503) & MT1379 and the SDRAM is damaged.
MT1379 VIDEO outputs properly?
Check the rel ated ci rcui t of MT1379. (IC501 PIN 161,166, 168 check)
Have TV signal output?
Check the fi l teri ng and amp ci rcui t of TV si gnal .(IC604)
Check AV cable connection to TV set .
Does Tray move inside when it is not at closed position?
Normal TROUT & TRIN signals?
Check the load MODE1, MODE2, MODE3 switch
Normal TRCLOSE & TROPEN signal?
Check the Tray control IO pins on MT1376 & MT1379.
Normal LOAD+ & LOAD- signal ?
Check the Tray control amplifying circuit on Motor driver.(IC202)
Check the cable connection between main PCBA and loader. (MECHA)
B


B
Does the SLED move to inner side when it is at outter positi on?
No
Yes
Motor Driver STBY Pin is High?
No
Check the connection line of STBY signal .
Yes
Motor Driver STBY Pin is High?
No
Check the rel ated circuit of FMSO.
Yes
SL+ and SL- output properl y?
No
Check the amp circuit on motor driver.
Yes
Do not put in disc and tray close.
Check the cable connection with MECHA.
Optical Lens has movements for searching Focus?
Proper FOSO outputs to motor driver?
No
Check FOSO connection on MT1379 and motor dirver.
Yes
Yes
Proper F+ & F- outputs?
No
Check the amp circuit on motor dirver.
Yes
C
Check cable connect on with pick-up head.


C
Laser turns on when reading disc?
No
LD01 or LD02 output properly?
No
Check the laser power circuit on MT1336 and connecting to power transistor. (Q204, Q205)
Yes
Yes
Collector voltage of power transistor is OK? (Q204, Q205)
No
Check therel ated ci rcuit on laser power transi stor
Yes
Check cable connection between transistor couput and pick-up head.
Put disc in?
No
Laser off
Yes
Disc ID is correct?
No
Proper RFL signal on MT1336?
No
Check the related circuit on MT1336 RFL signal .
Yes
Yes
Check the RFL connection between MT1336 and MT1379.
Does spindle rotate?
No
Proper DMSO signal on MT1379
No
Check DMSO related circuit on MT1379.
Yes
Yes
SP+ & SP- output properly?
No
Check the spindle control amp circuit of motor driver.
Yes
Check the cable connection between spindle and main PCBA.
D


D
Yes
Focus ON OK?
No
Proper signals on A, B, C, D of MT1336
No
Check connections between MT1336 and pick-up head.
Yes
Yes
Proper FEO signal on MT1336?
No
Check the related circuit on MT1336 FEO sugnal .
Yes
Check FEO connection between MT1336 and MT1379
Track On OK?
Proper FEO signal on MT1336?
No
Check the related circuit on MT1336
Yes
Yes
Properly TRSO signal on MT1379?
No
Check the TRSO connection on MT1379 and motor dirver.
Yes
T+ & T- output properly?
No
Check the tracking control amp circuit on motor driver.
Yes
Check cable connection on pick-up head.
Disc is play?
No
Check RF signal waveform.
Yes
E


E
Normal Audio output when disc playback?
Audio DAC received correct data stream?
Check connection between MT1379 & Audio DAC. (Check VRST#, ACLK, ABCK, ASDAT3)
Normal Audio DAC out? (IC601)
Check the related circuit of Audio DAC. (Check Audio out Pin 14, 15,18,19)
Check Audio filter, amplify, mute circuit. (IC602 Application circuit)?
Normal IR. VFD & Front pannel key functions?
Communications between IR.VFD Front pannel key & MT1379 & Front u-com(IC901) is normally?
Check communi cation lines on MT1379.
TEST END
Check the cable connection on Front pannel.

DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

1. SYSTEM 27MHz CLOCK,RESET,FLASH R/W SIGNAL

1) MT1379 main clock is at 27MHz(X501)

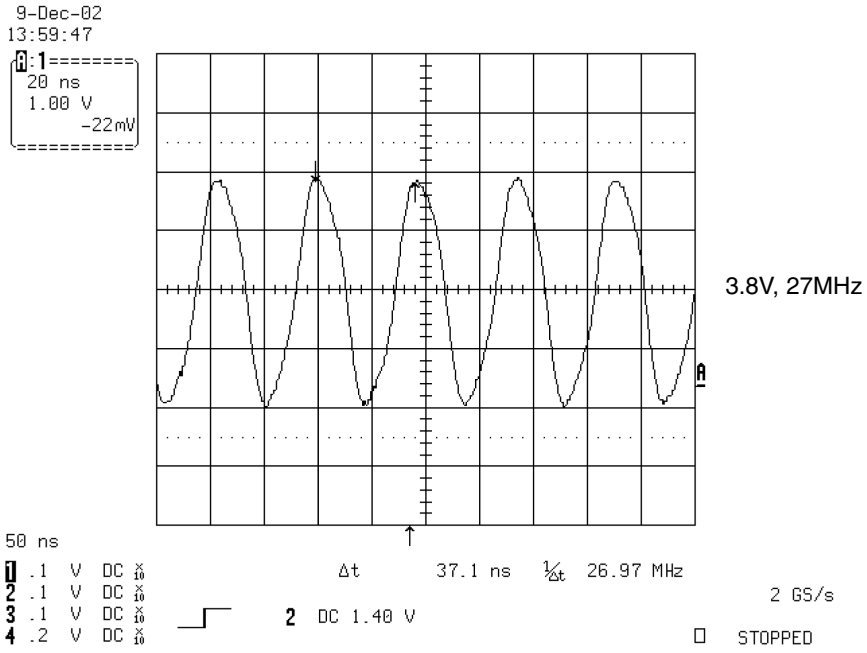


FIG 1-1

2) MT1379 & MT1336 reset is high active.

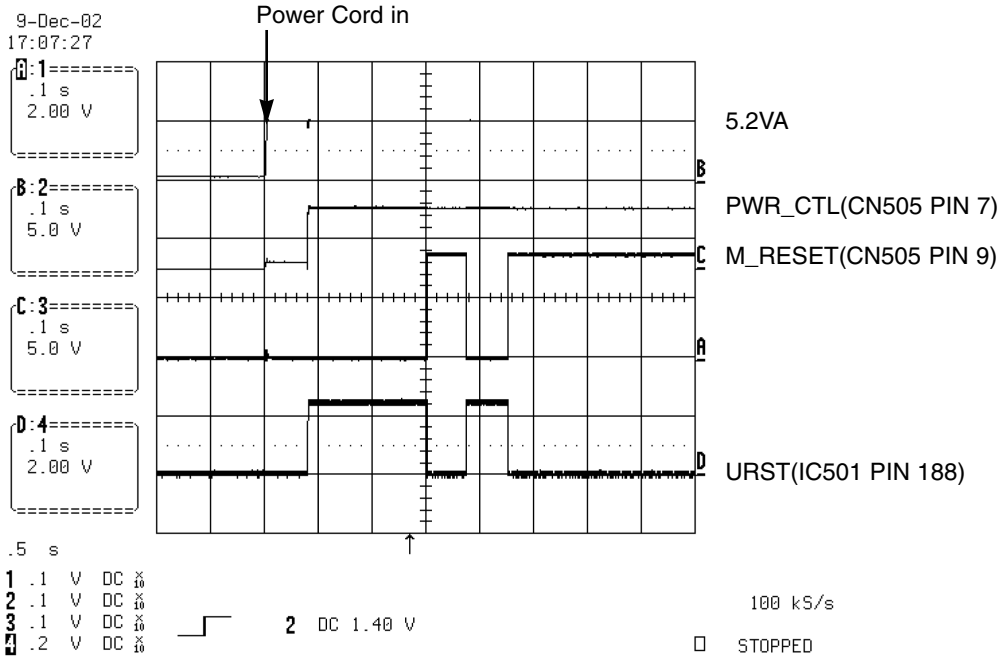


FIG 1-2

3) RS232 waveform during procedure(Downloading)

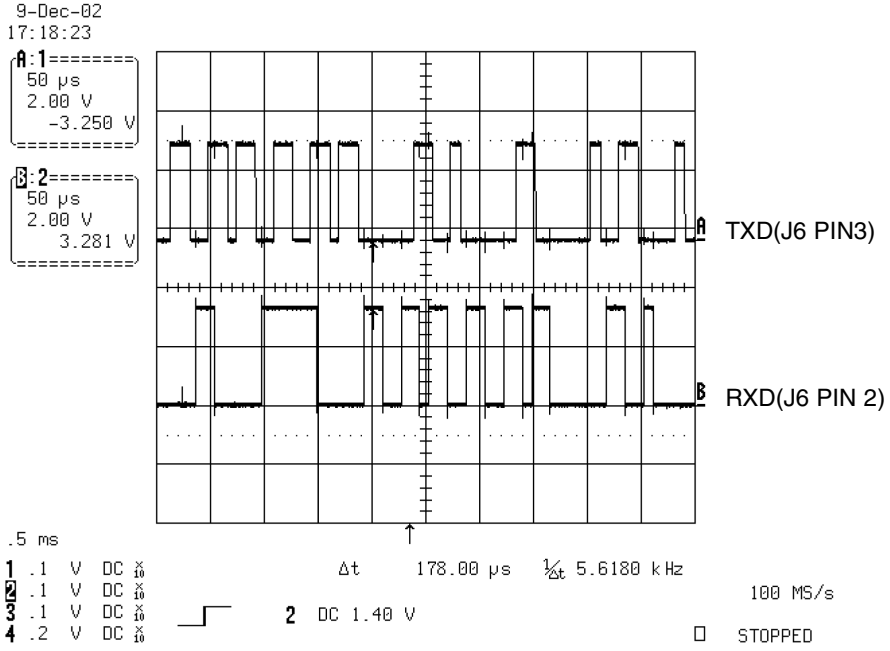


FIG 1-3

4) Flash R/W enable signal during download(Downloading)

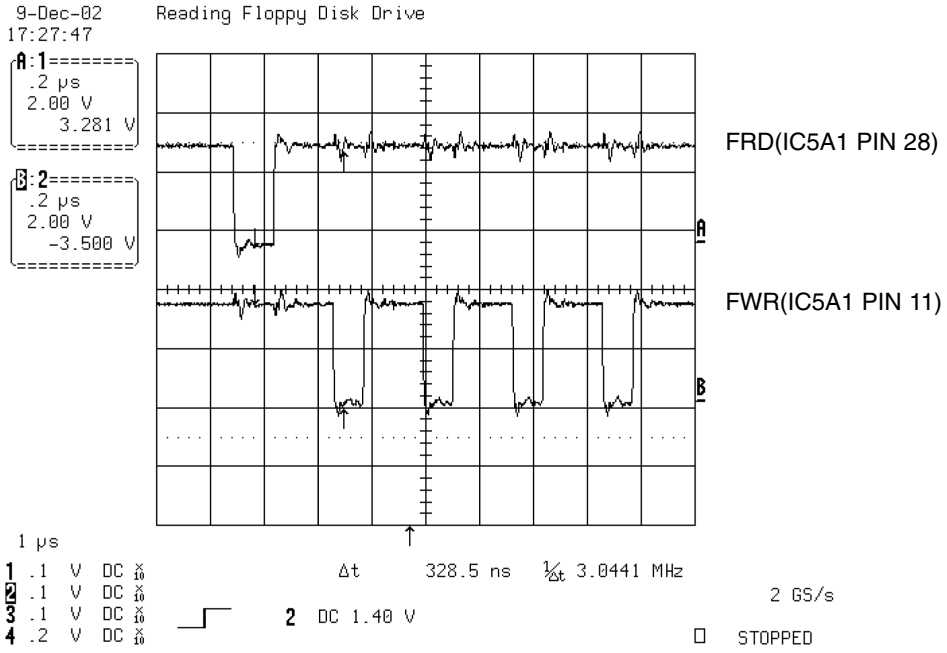


FIG 1-4

2. SDRAM CLOCK

1) MT1379 main clock is at 27MHz(X501)

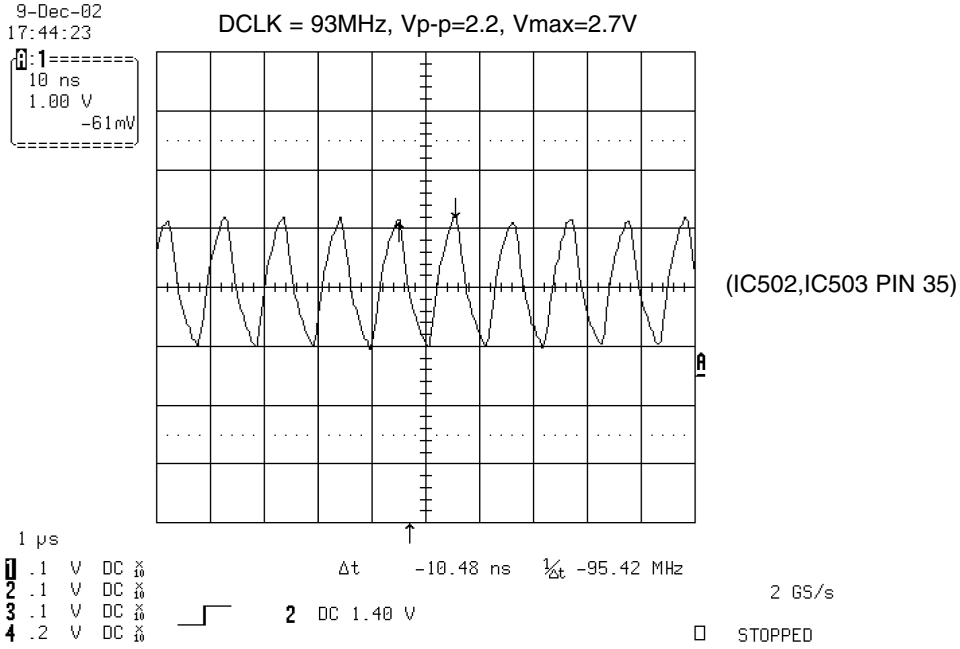


FIG 2-1

3. TRAY OPEN/CLOSE SIGNAL

1) Tray open status waveform

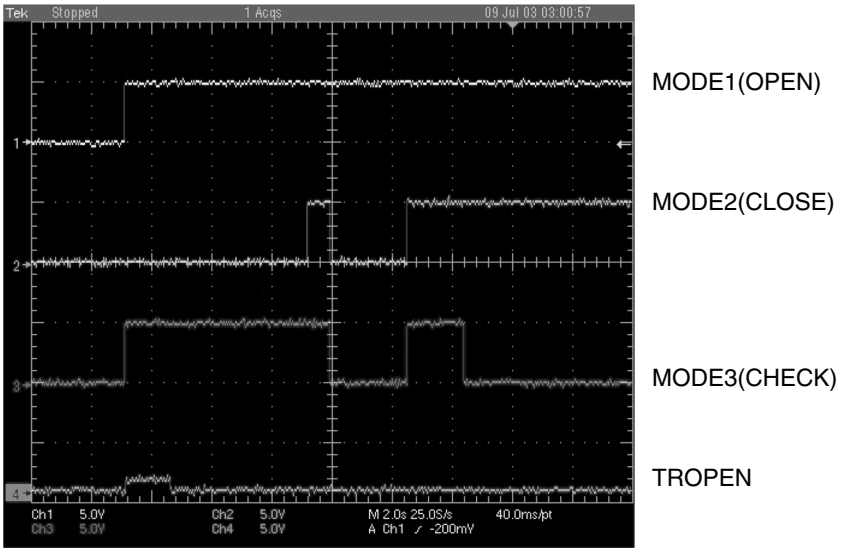
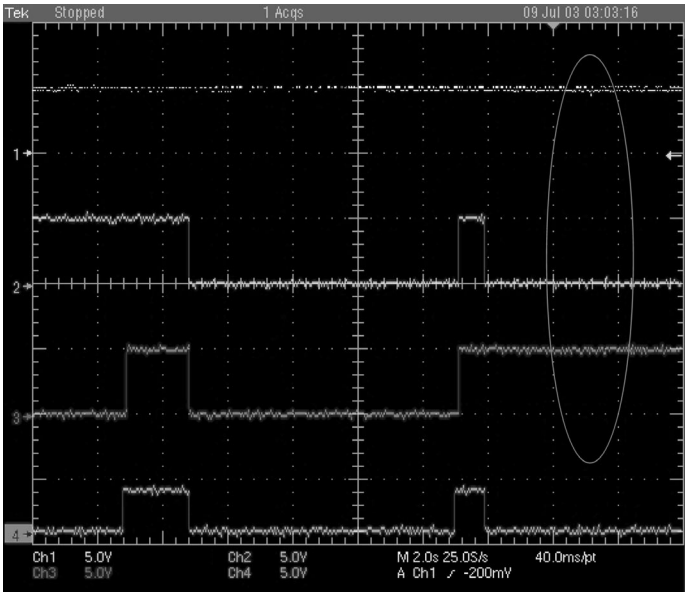


FIG 3-1

2) Tray close status waveform



MODE1(OPEN)

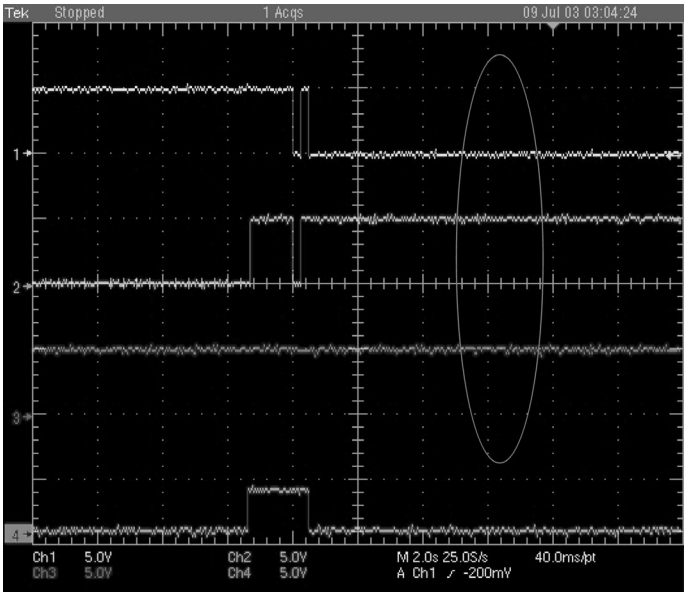
MODE2(CLOSE)

MODE3(CHECK)

TROPEN

FIG 3-2

3) Tray exchage status waveform



MODE1(OPEN)

MODE2(CLOSE)

MODE3(CHECK)

TROPEN

FIG 3-3

4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)

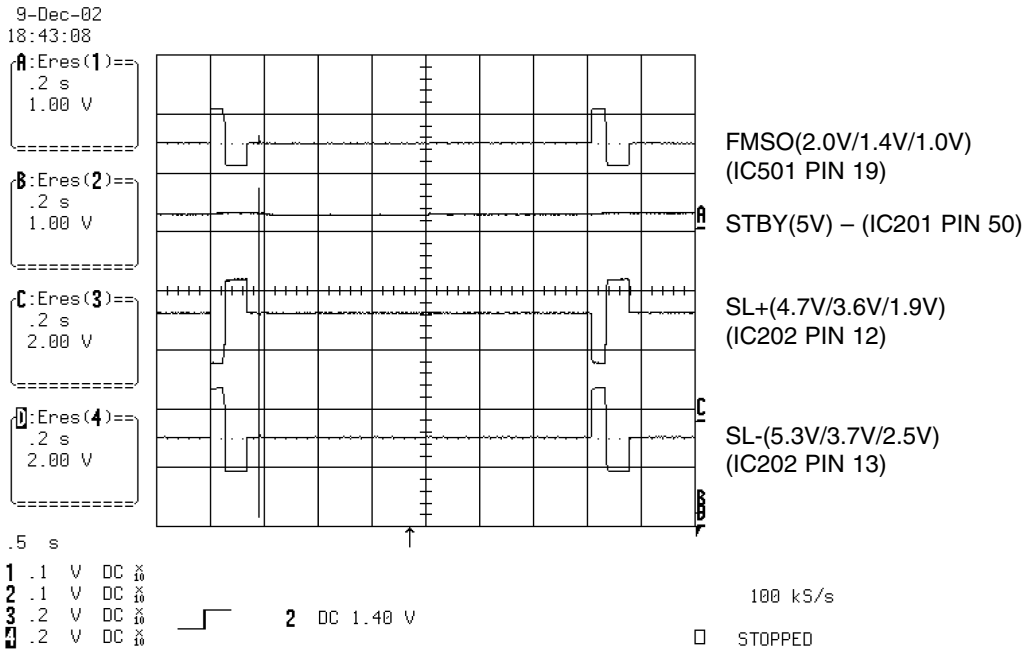


FIG 4-1

5. LENS CONTROL RELATED SIGNAL(NO DISC CONDITION)

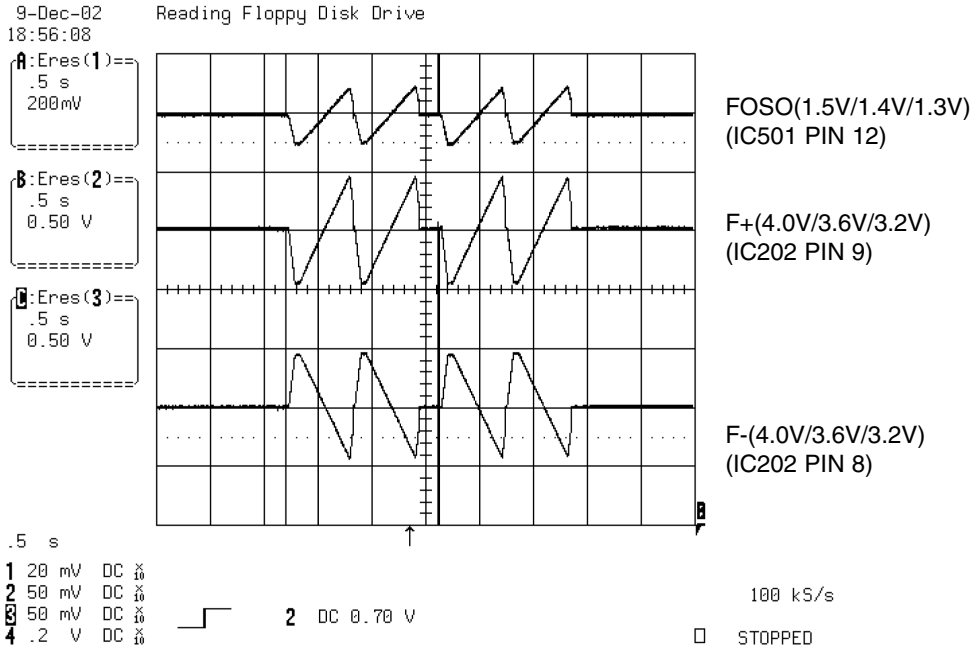


FIG 5-1

6. LASER POWER CONTROL RELATED SIGNAL(NO DISC CONDITION)

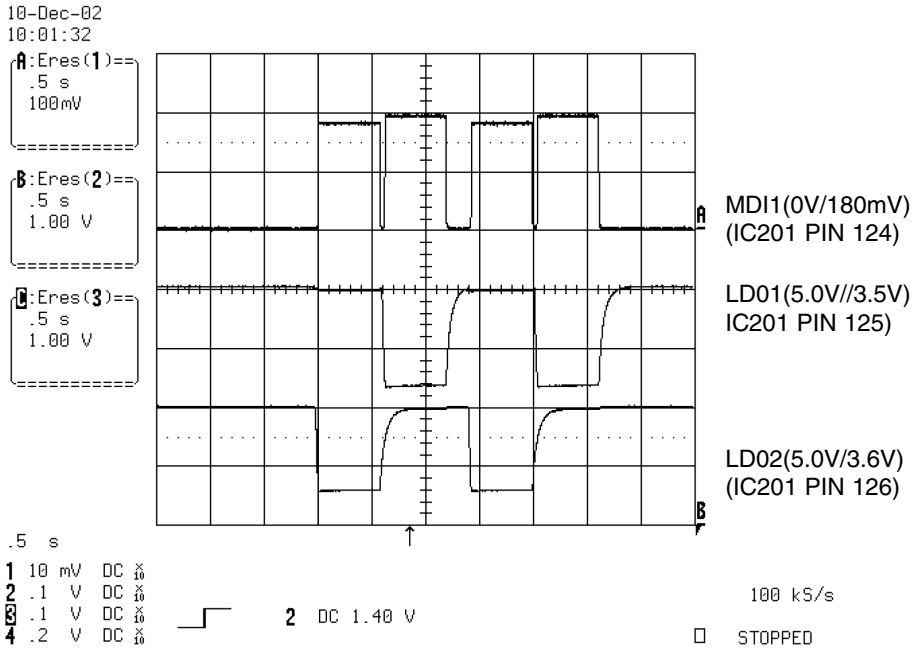


FIG 6-1

7. DISC TYPE JUDGEMENT WAVEFORM

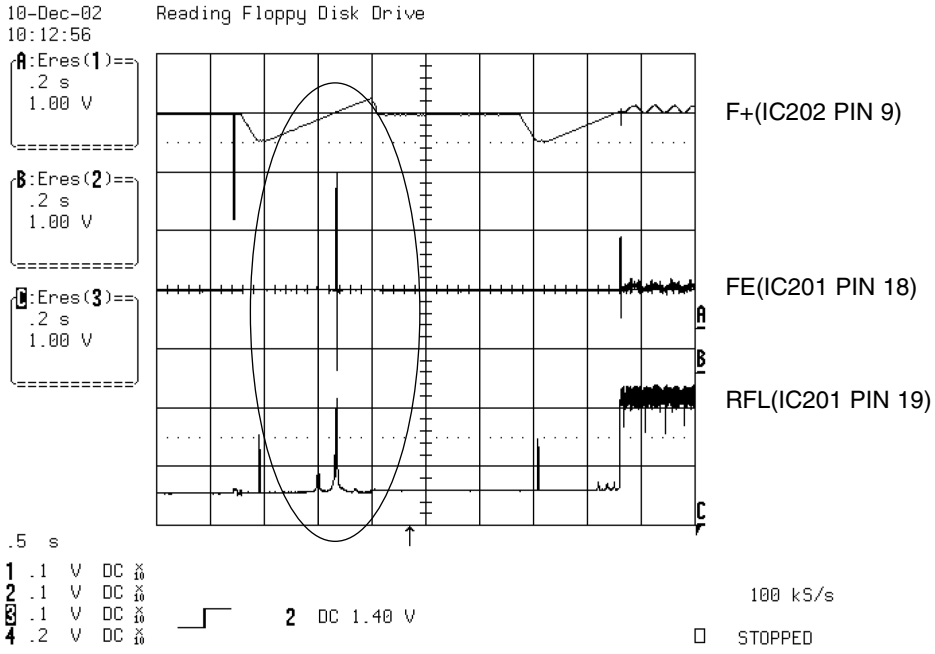


FIG 7-1 (DVD)

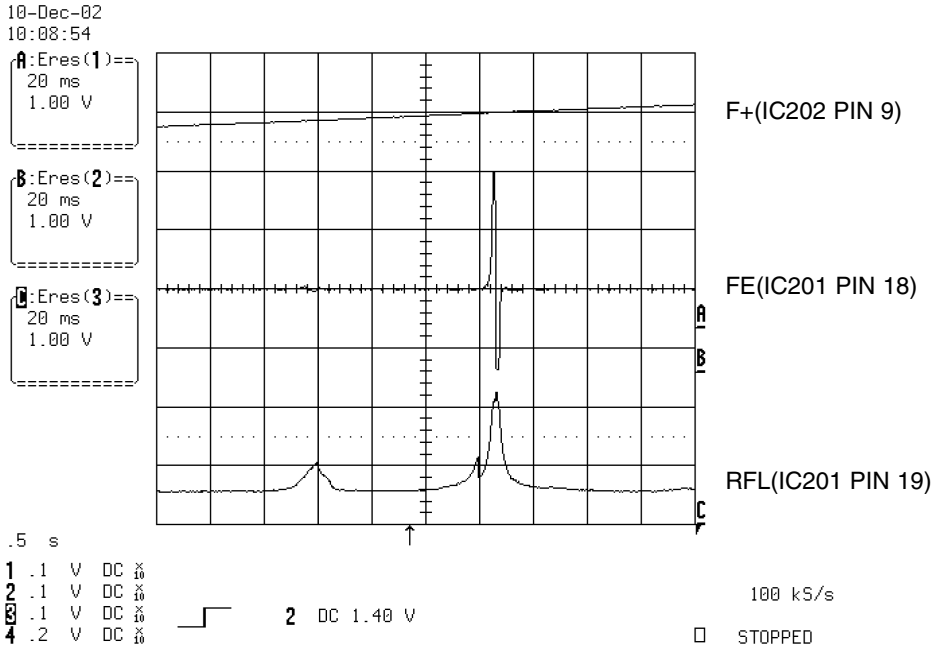


FIG 7-2 (DVD)

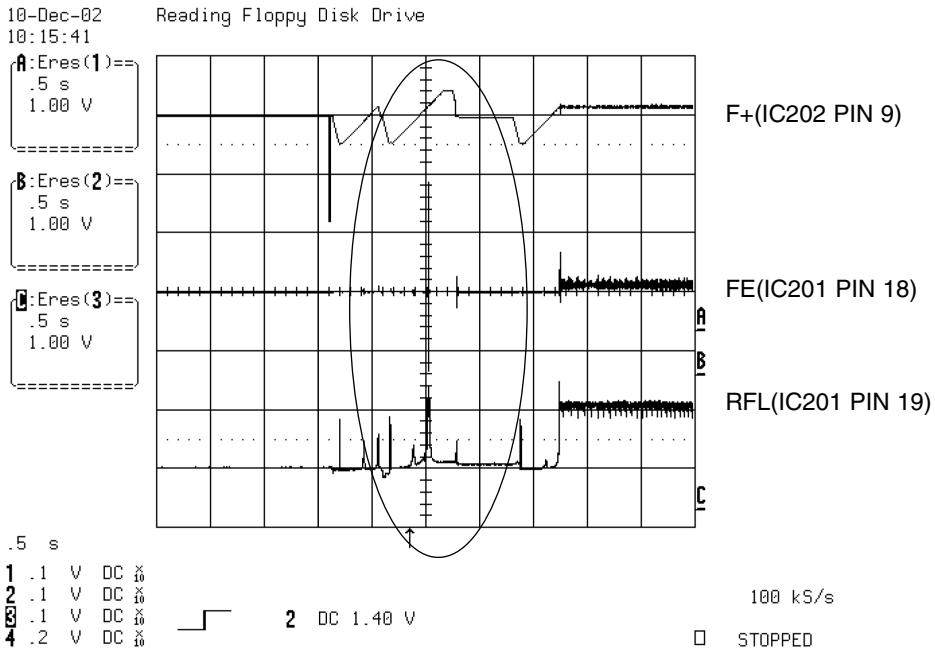


FIG 7-3 (CD)

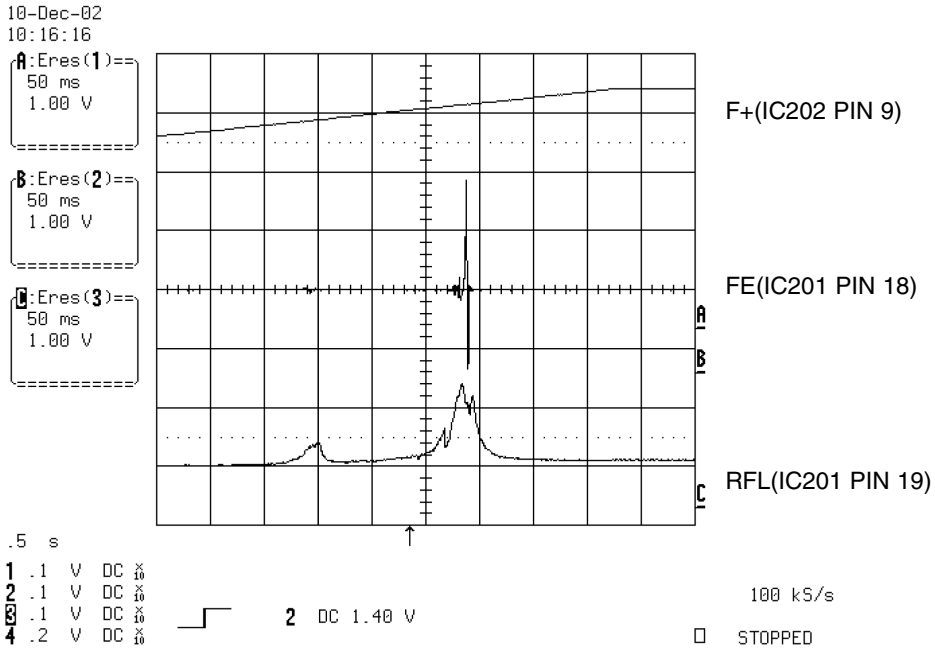


FIG 7-4 (CD)

8. FOCUS ON WAVEFORM

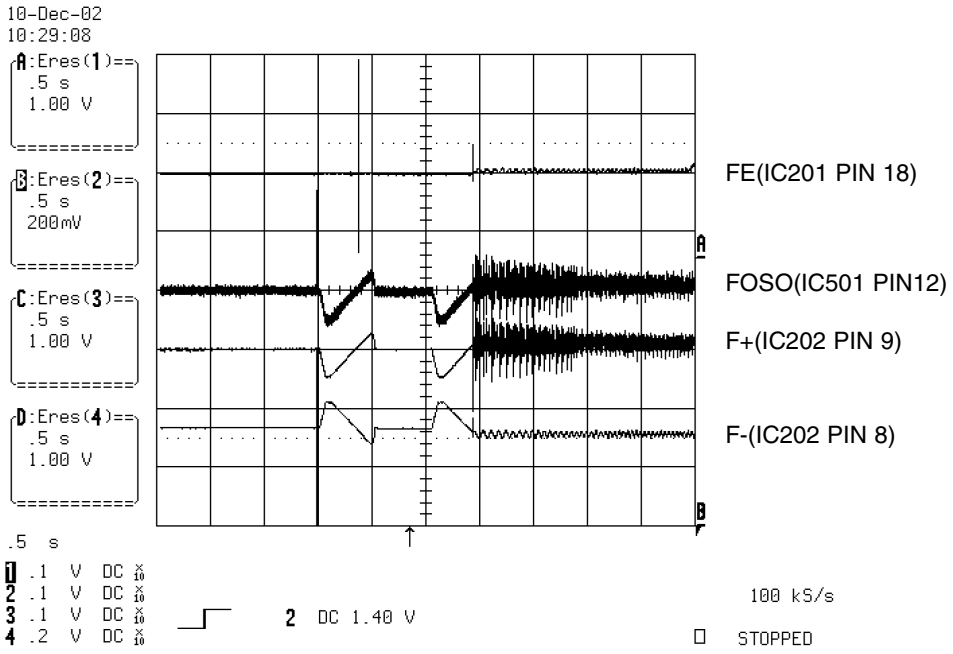


FIG 8-1 (DVD)

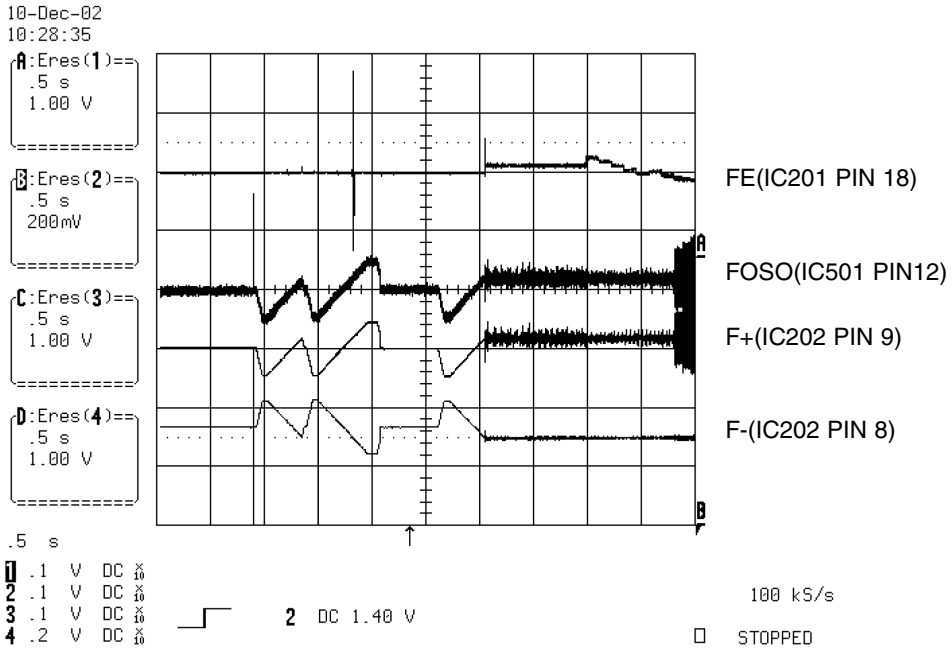


FIG 8-2 (CD)

9. SPINDLE CONTROL WAVEFORM (NO DISC CONDITION)

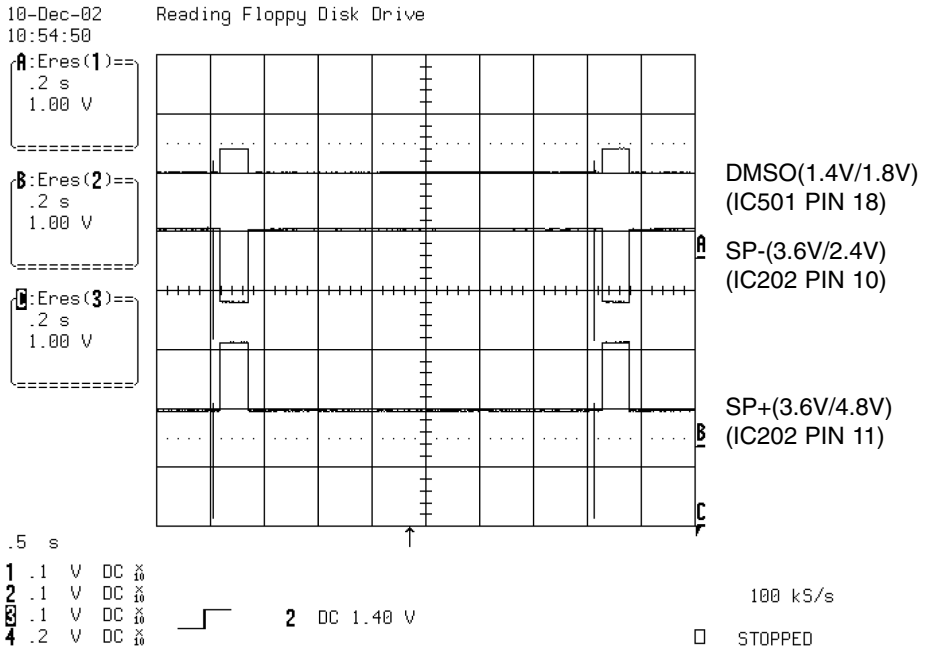


FIG 9-1

10. TRACKING CONTROL RELATED SIGNAL(System checking)

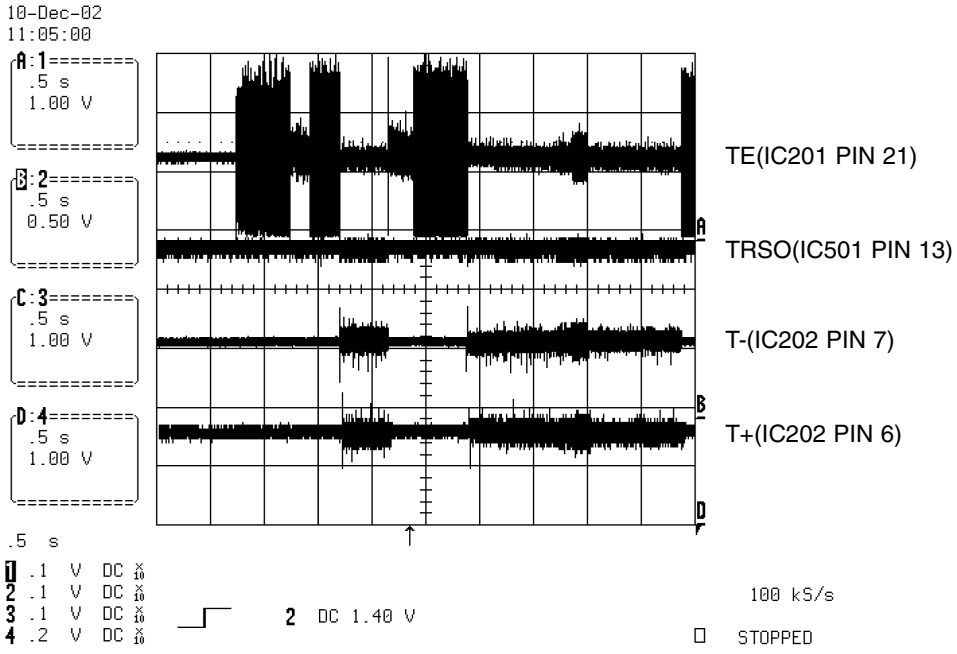


FIG 10-1(DVD)

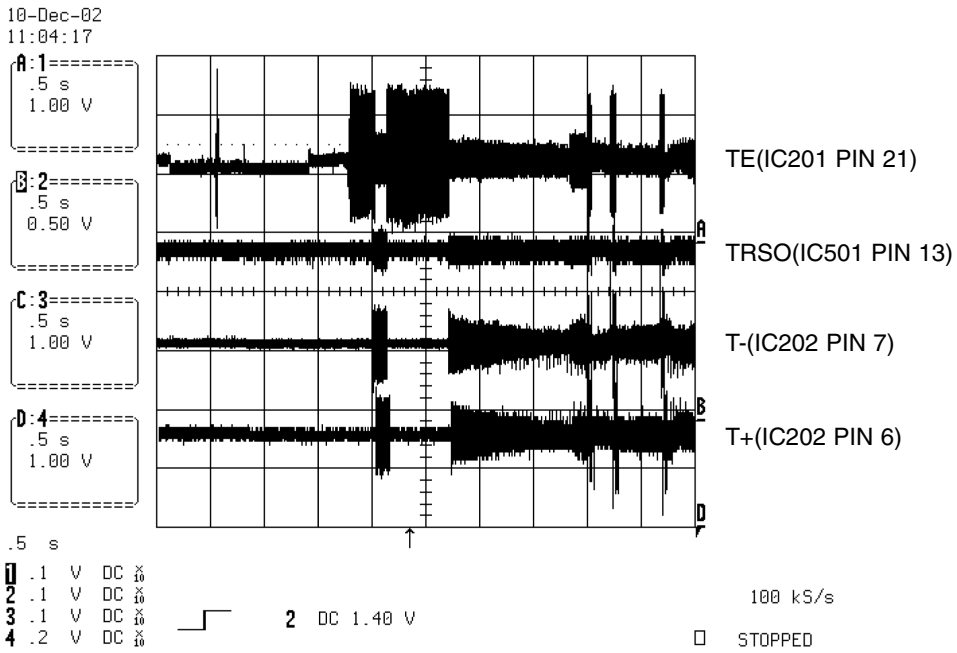


FIG 10-2(CD)

11. RF WAVEFORM

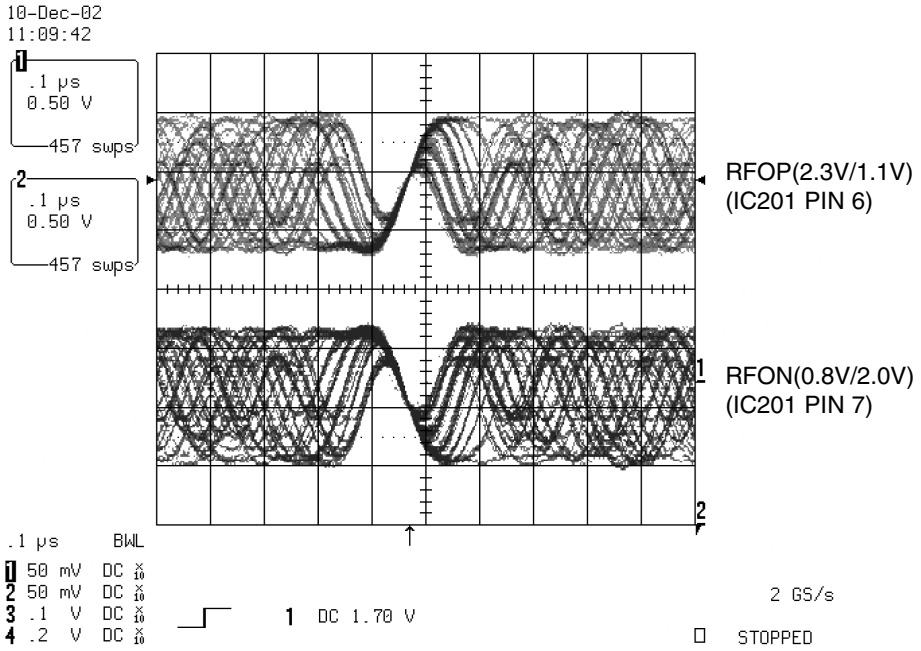


FIG 11-1

12. MT1379 AUDIO OPTICAL AND COAXIAL OUTPUT (ASPDIF)

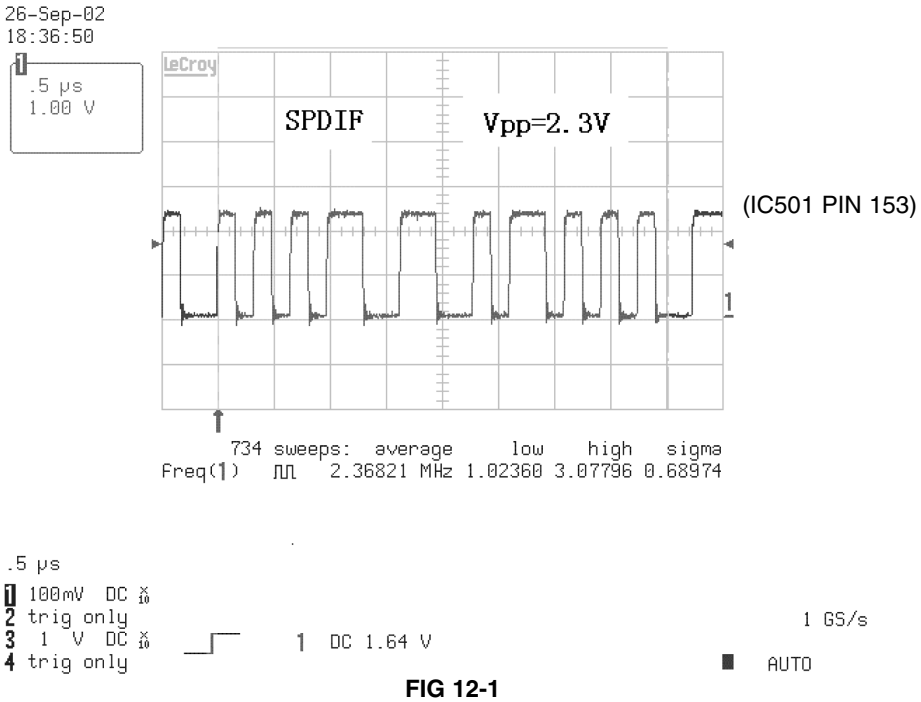
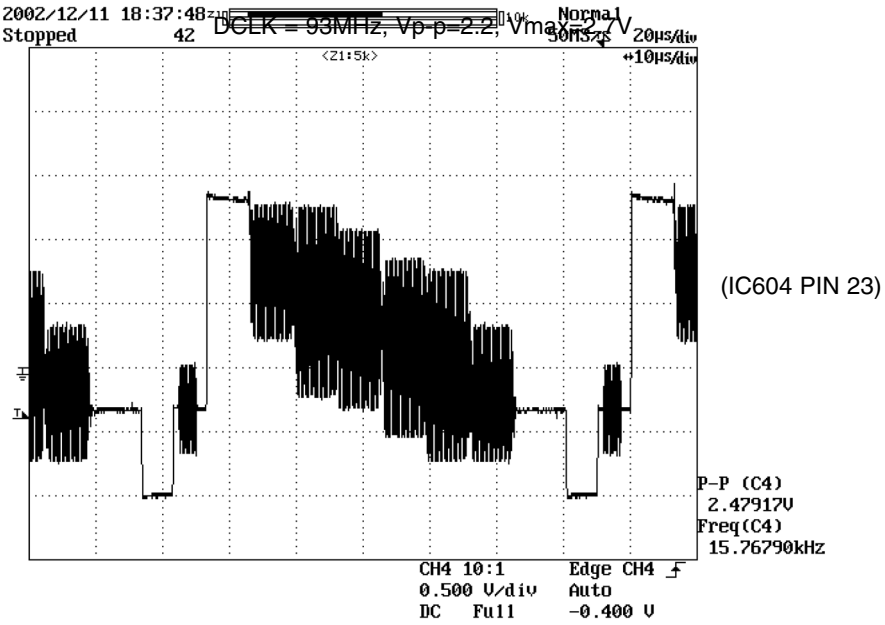


FIG 12-1

13. MT1379 VIDEO OUTPUT WAVEFORM

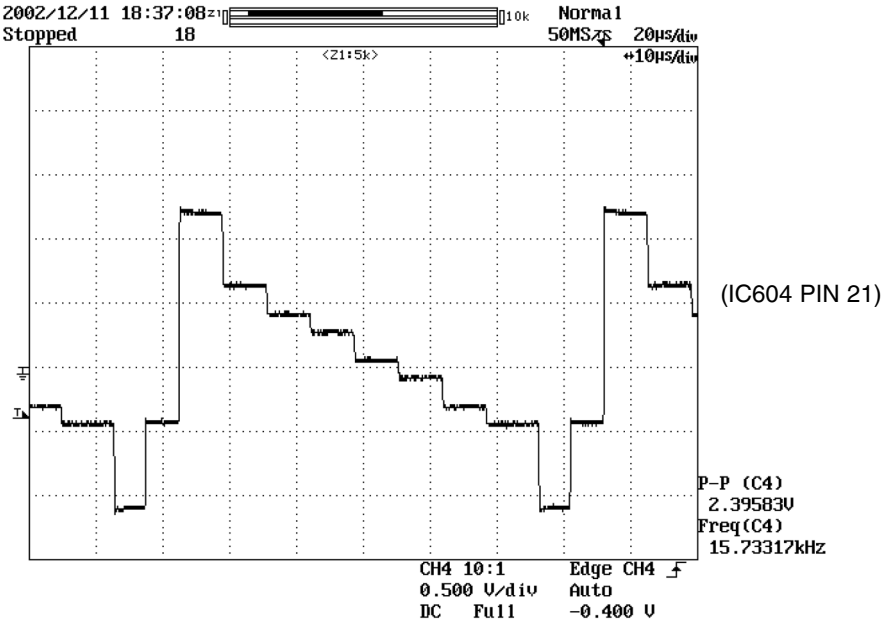
1) Full colorbar signal(CVBS)



(IC604 PIN 23)

FIG 13-1

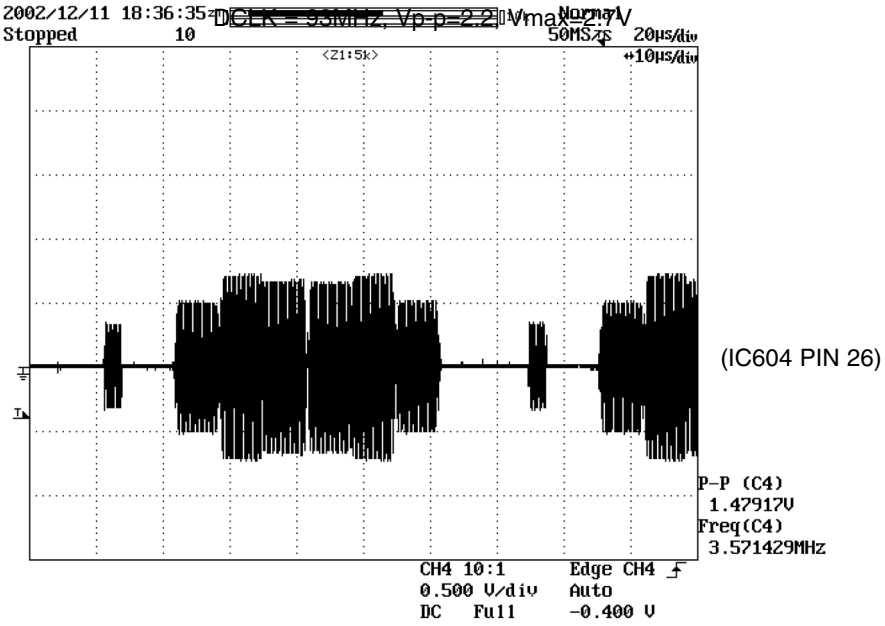
2) Y



(IC604 PIN 21)

FIG 13-2

3) C

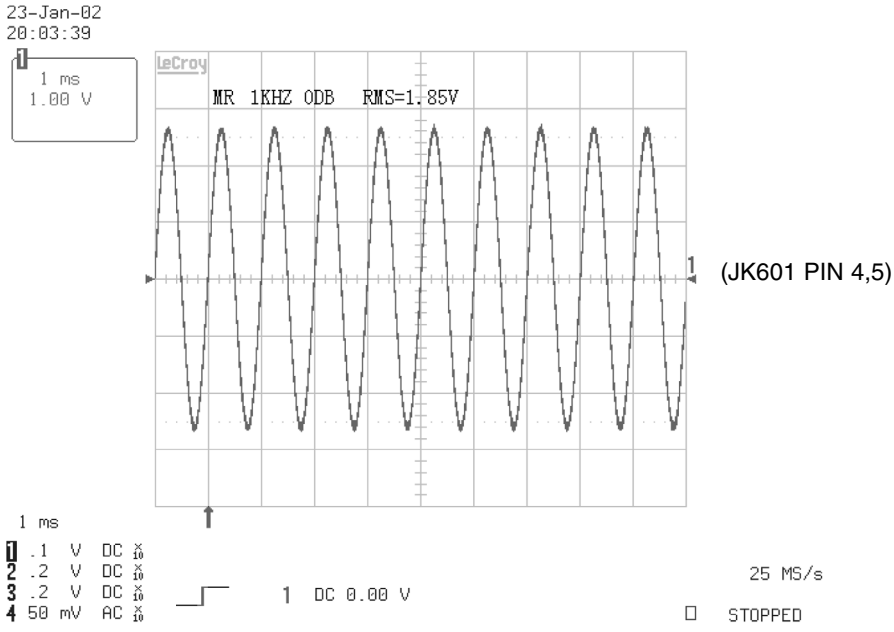


(IC604 PIN 26)

FIG 13-3

14. AUDIO OUTPUT FROM AUDIO DAC

1) Audio L/R



(JK601 PIN 4,5)

FIG 14-1

2) Audio related Signal

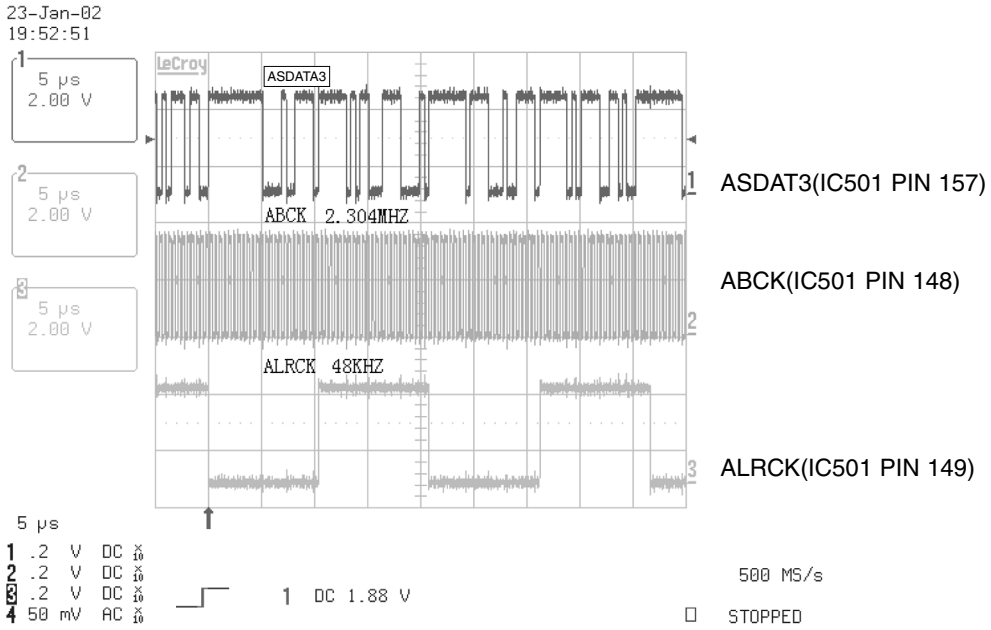
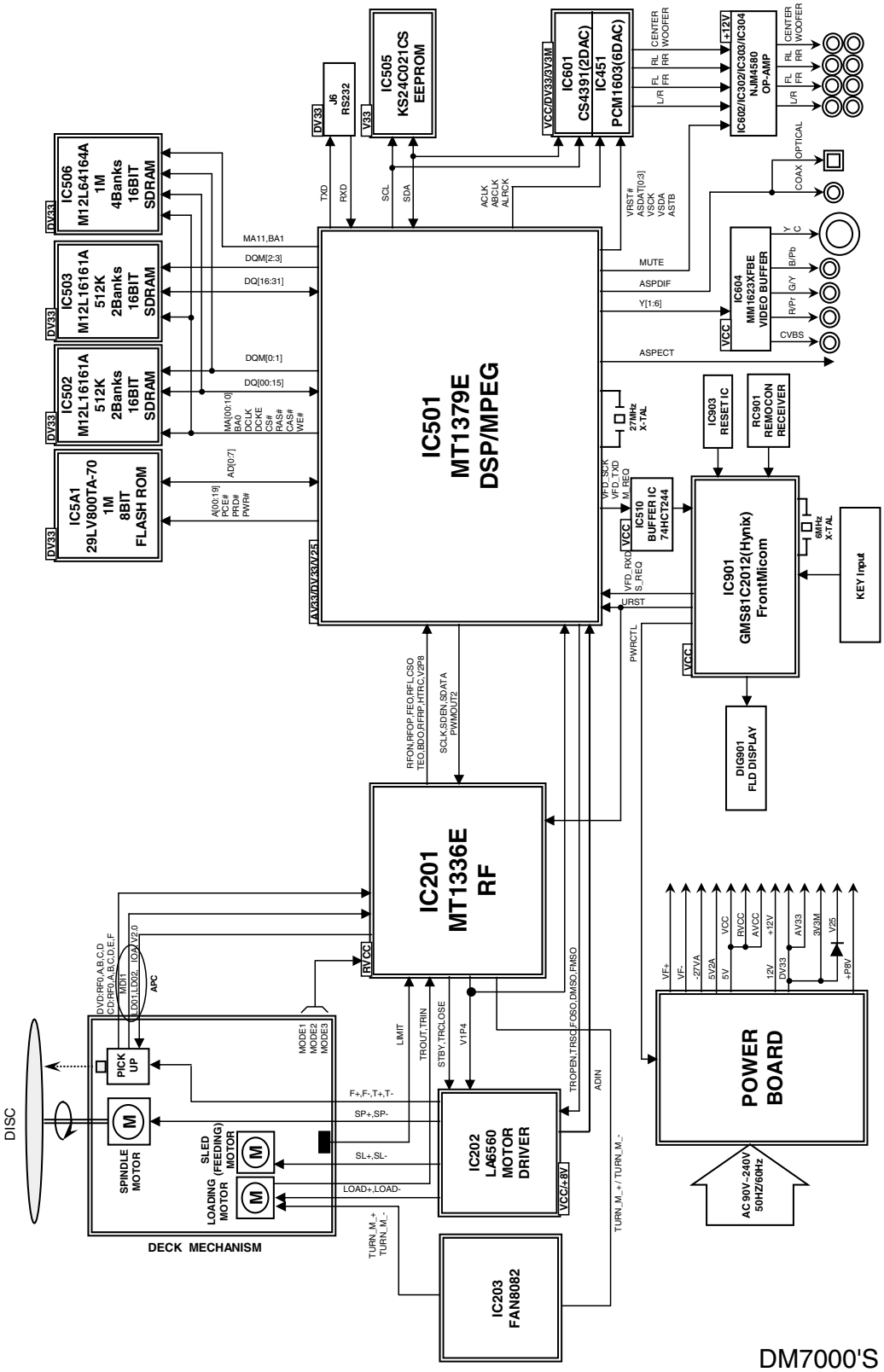


FIG 14-2

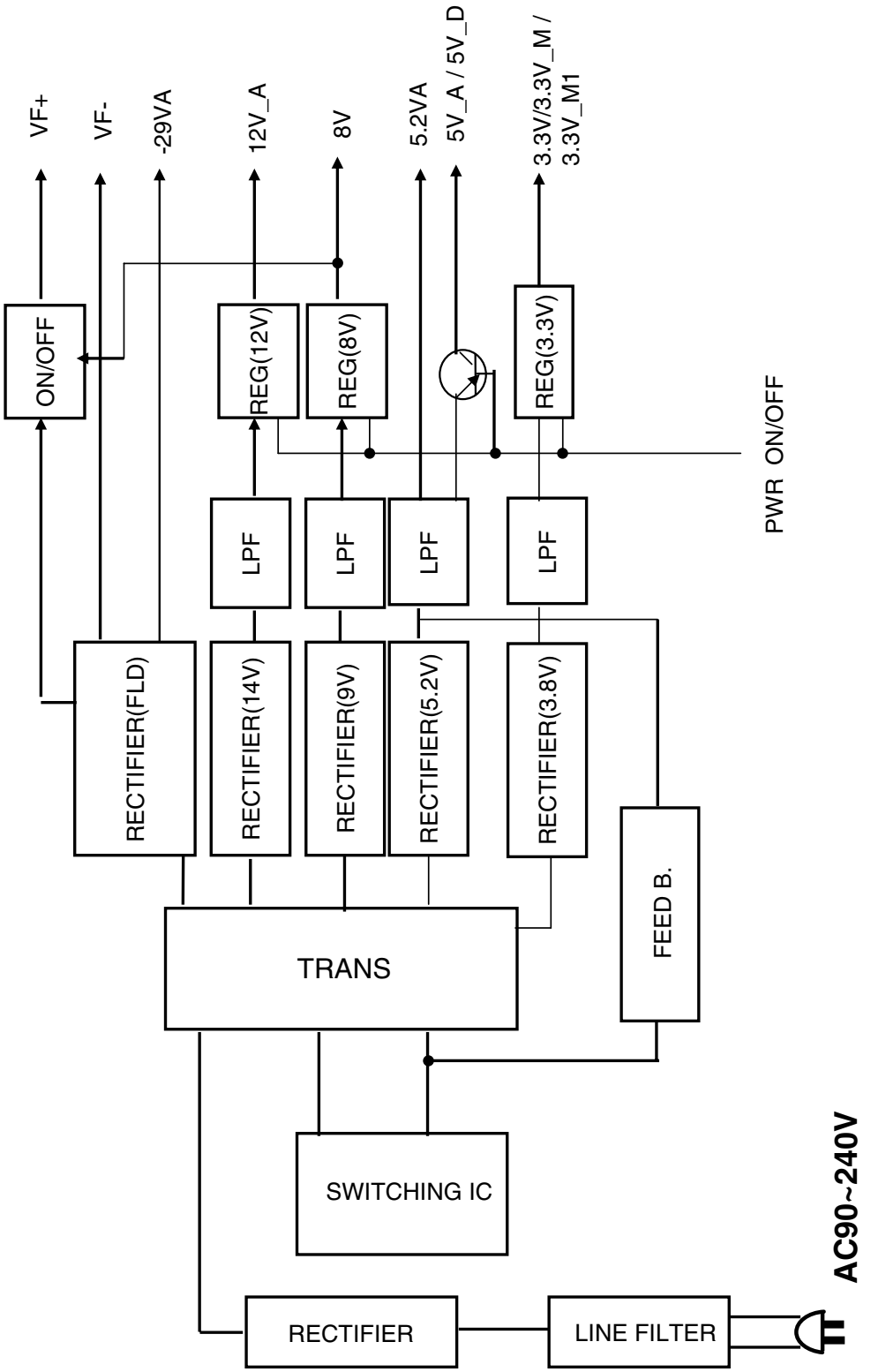
BLOCK DIAGRAMS

1. Overall Block Diagram



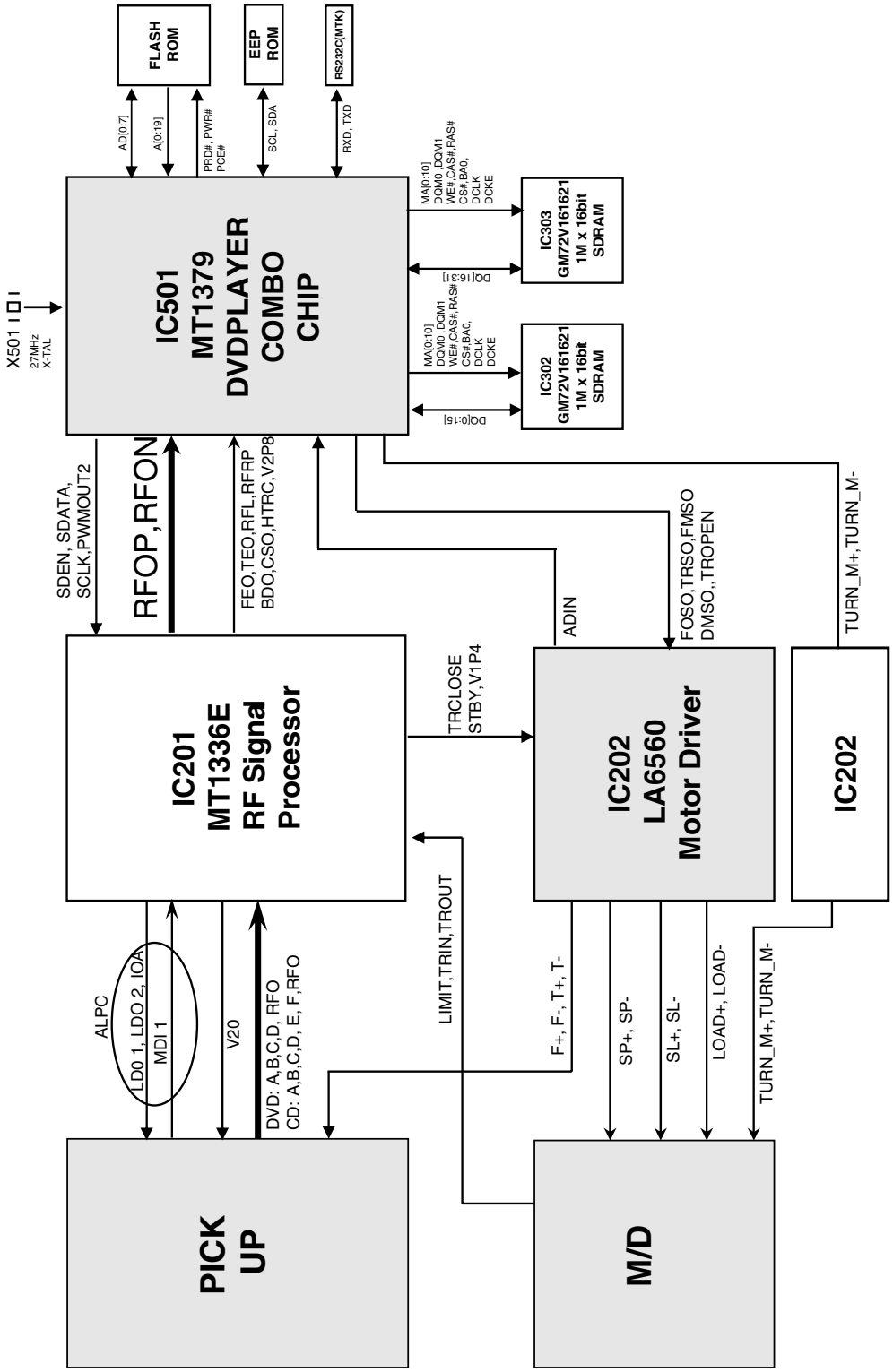
DM7000'S

2. Power(SMPS) Block Diagram



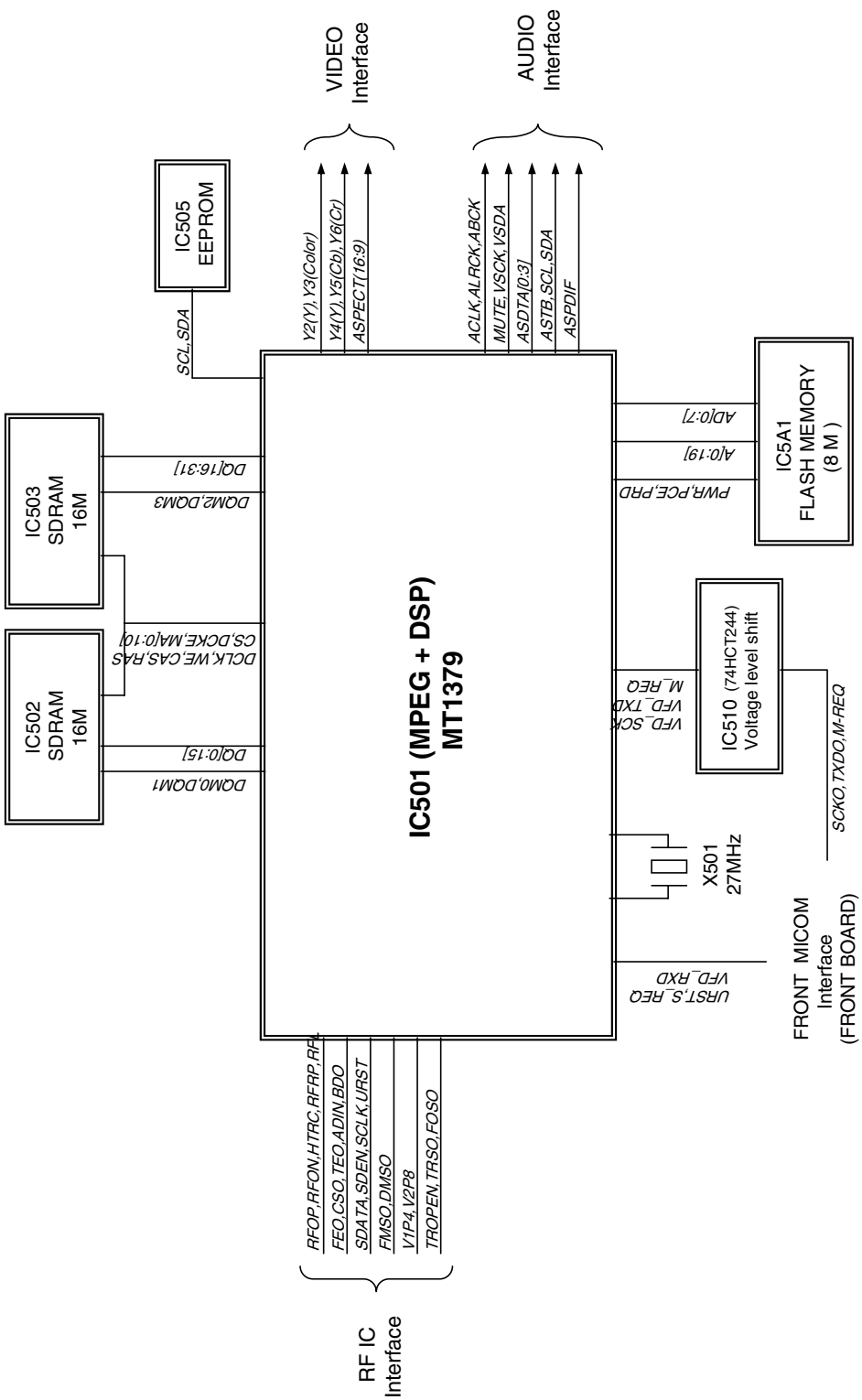
DM7000'S

3. SERVO Block Diagram



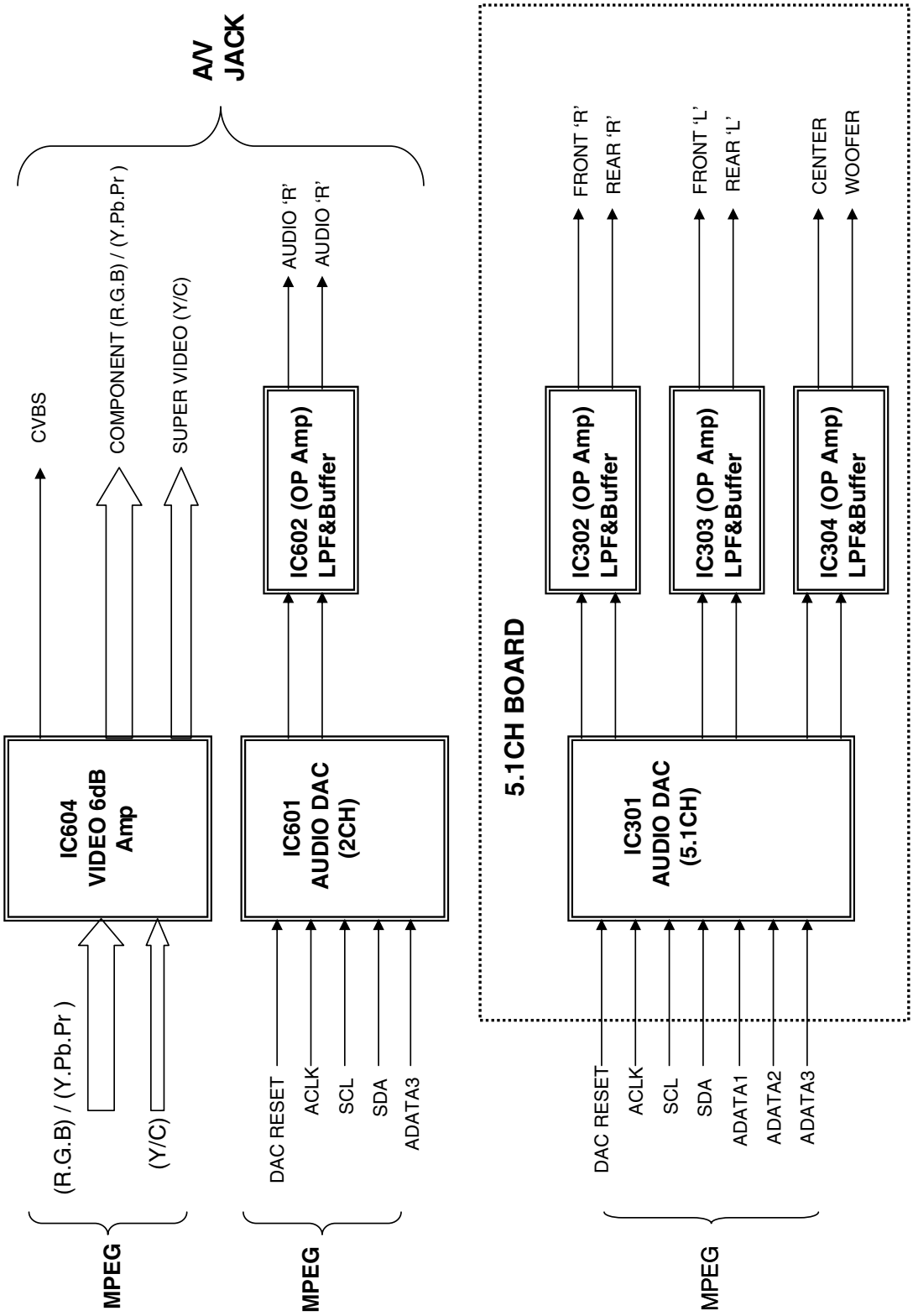
DM7000'S

4. MPEG & MEMORY Block Diagram

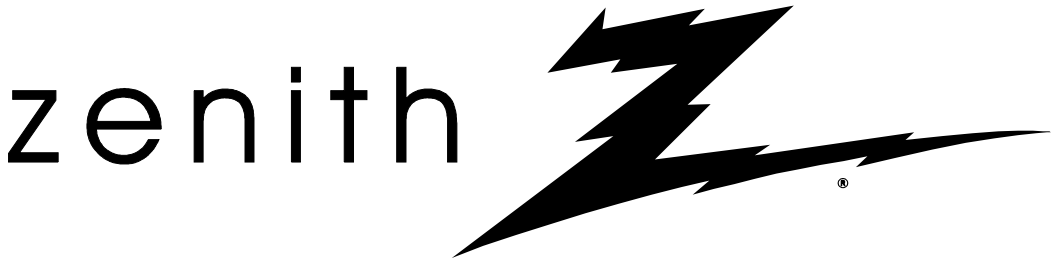


DM7000'S

5. VIDEO & AUDIO Block Diagram



DM7000'S


zenith

CIRCUIT DIAGRAMS

1. POWER(SMPS) CIRCUIT DIAGRAM

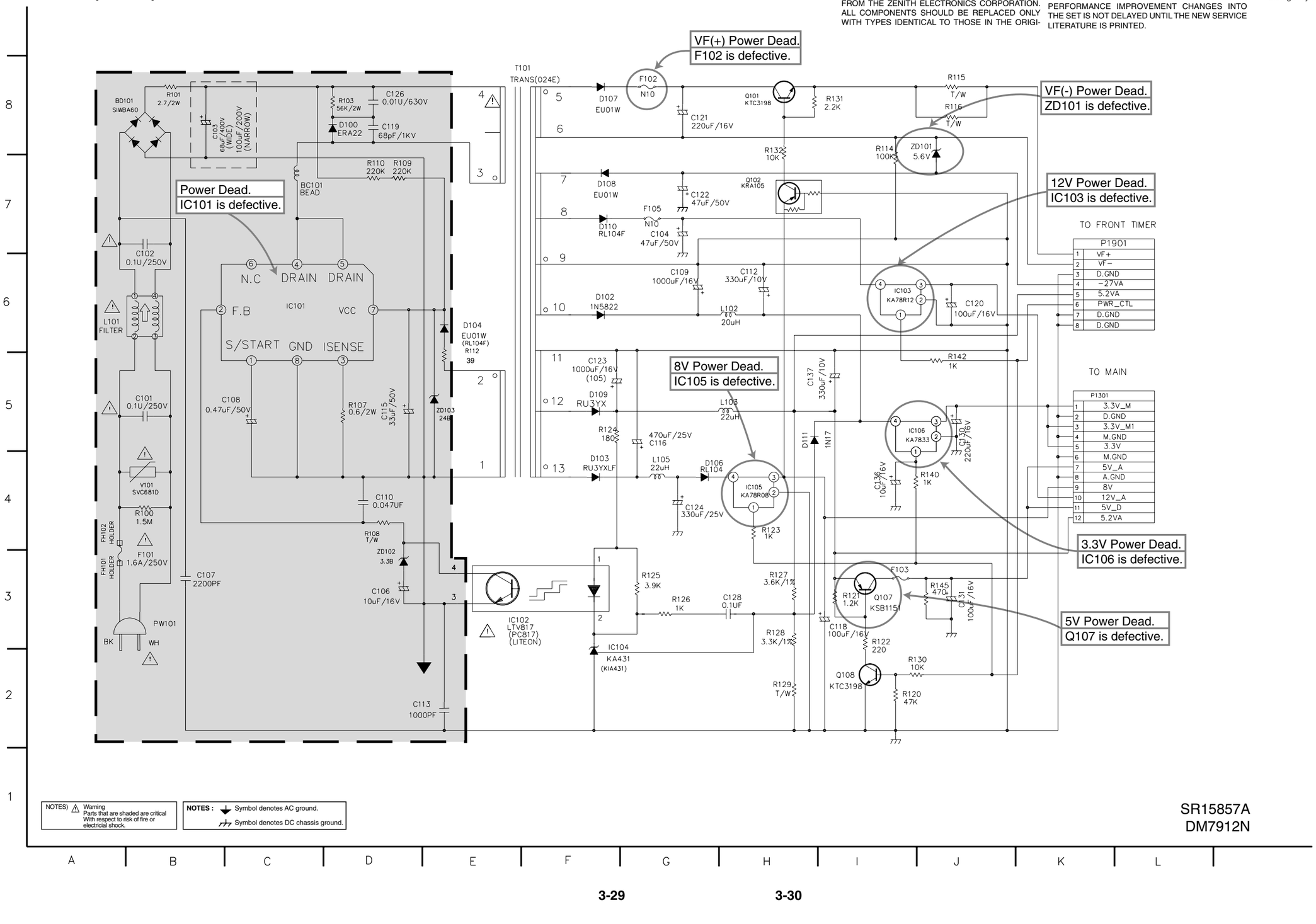
IMPORTANT SAFETY NOTICE

WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTERED WITHOUT PERMISSION FROM THE ZENITH ELECTRONICS CORPORATION. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT. SPECIAL COMPONENTS ARE SHADED ON THE SCHEMATIC FOR EASY IDENTIFICATION.

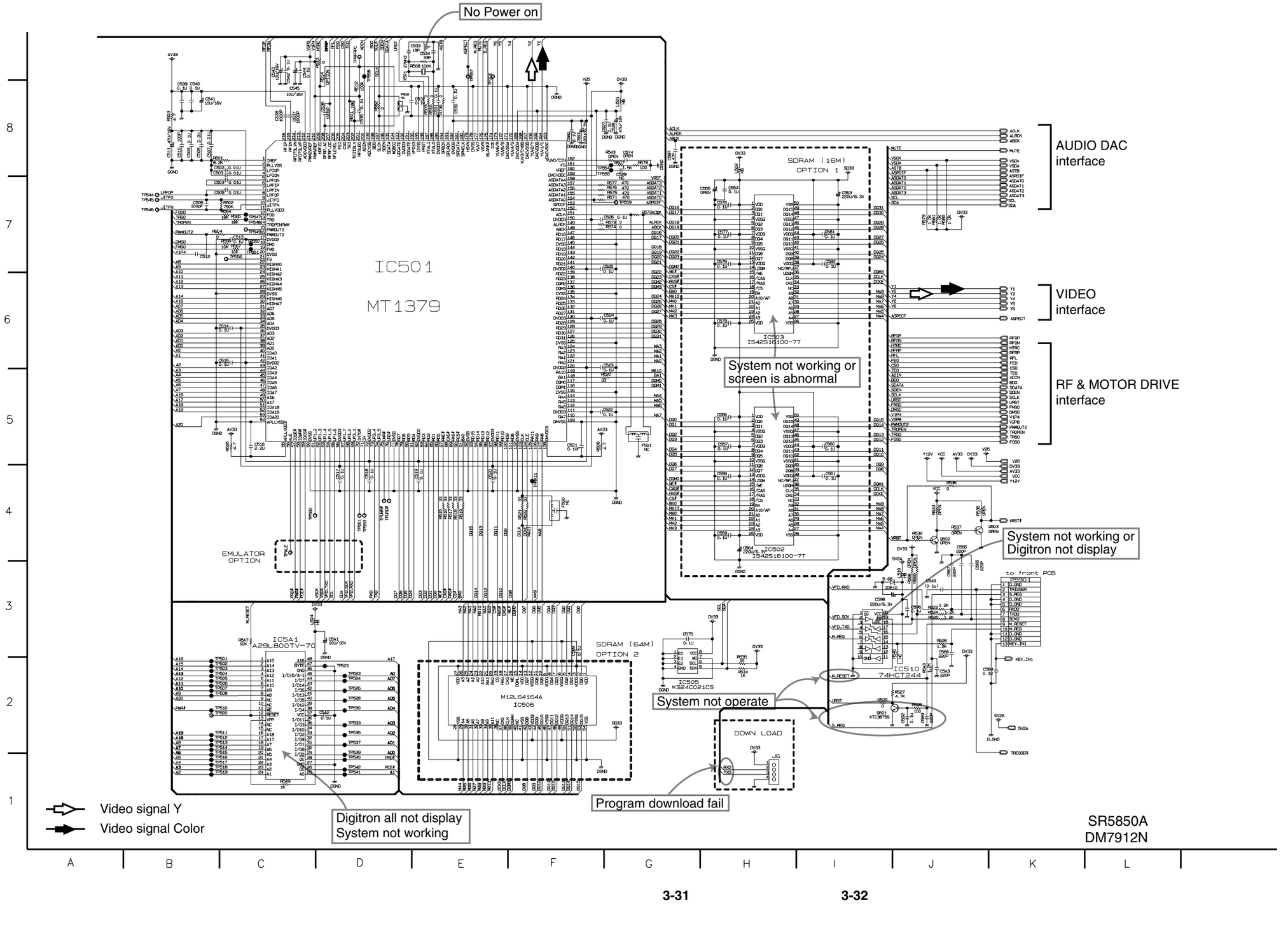
THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIFFER FROM THE ACTUAL CIRCUIT USED. THIS WAY, IMPLEMENTATION OF THE LATEST SAFETY AND PERFORMANCE IMPROVEMENT CHANGES INTO THE SET IS NOT DELAYED UNTIL THE NEW SERVICE LITERATURE IS PRINTED.

NOTE :

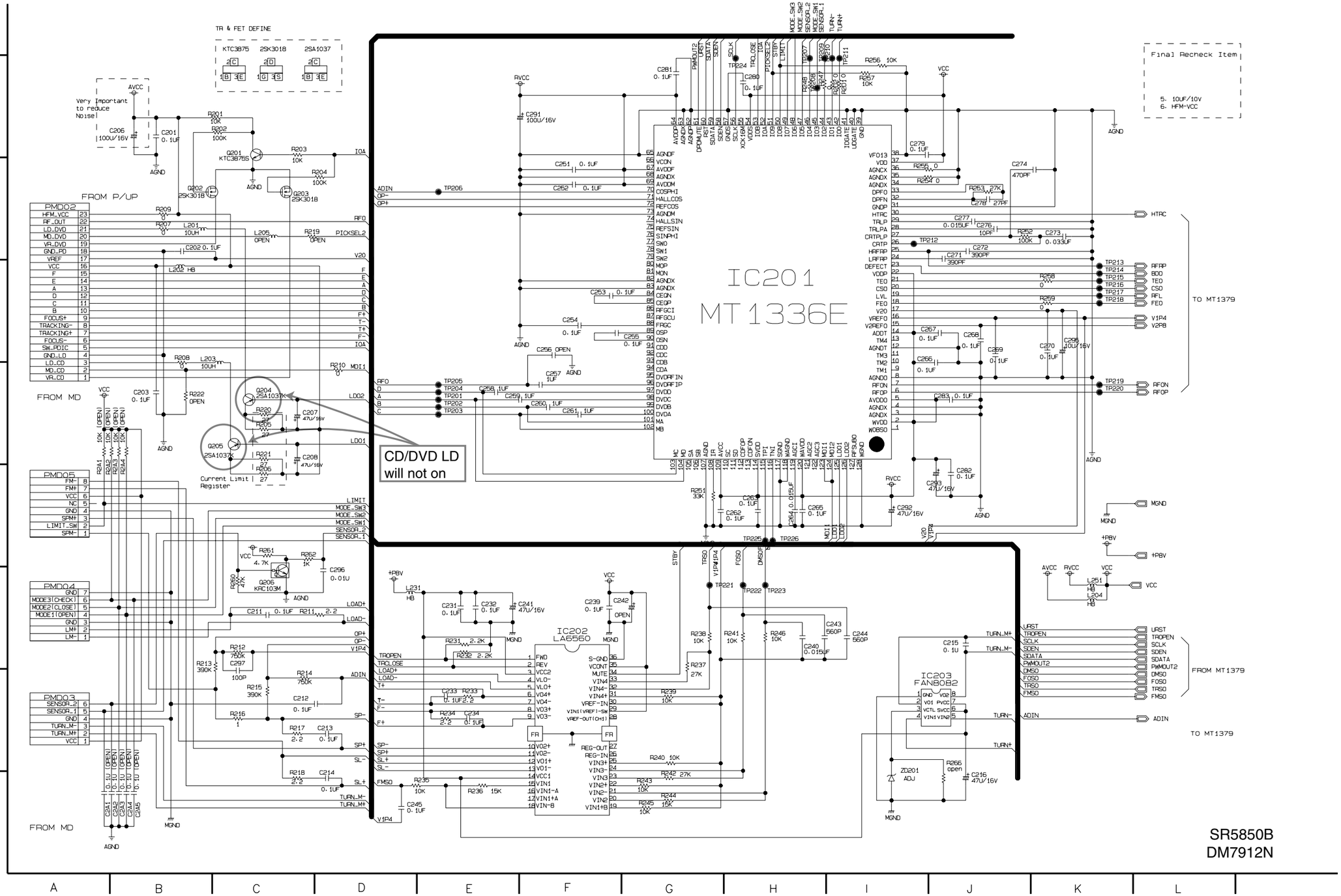
1. Shaded(■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during Play mode.



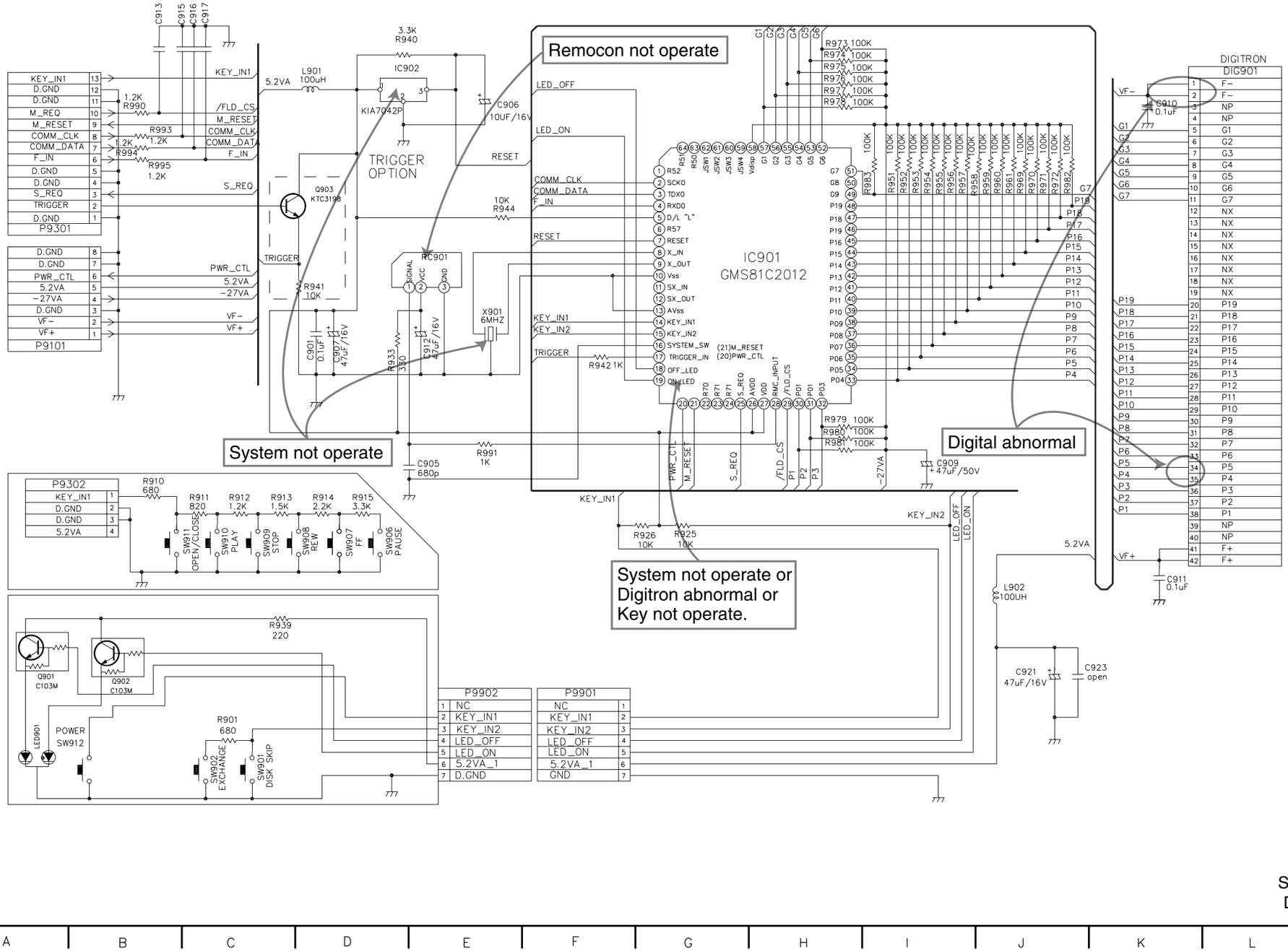
2. SYSTEM CIRCUIT DIAGRAM



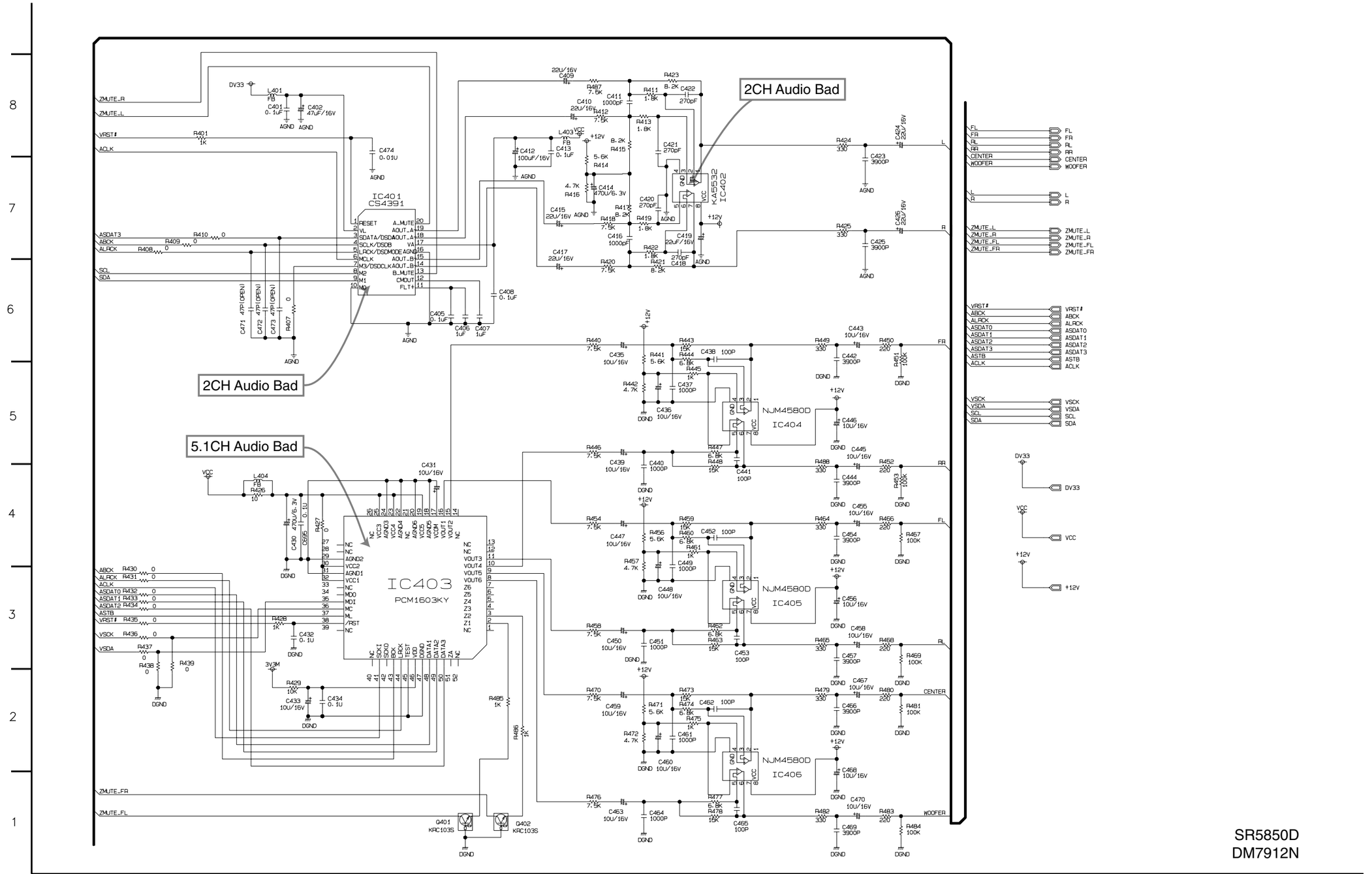
3. RF & SERVO CIRCUIT DIAGRAM



4. TIMER CIRCUIT DIAGRAM

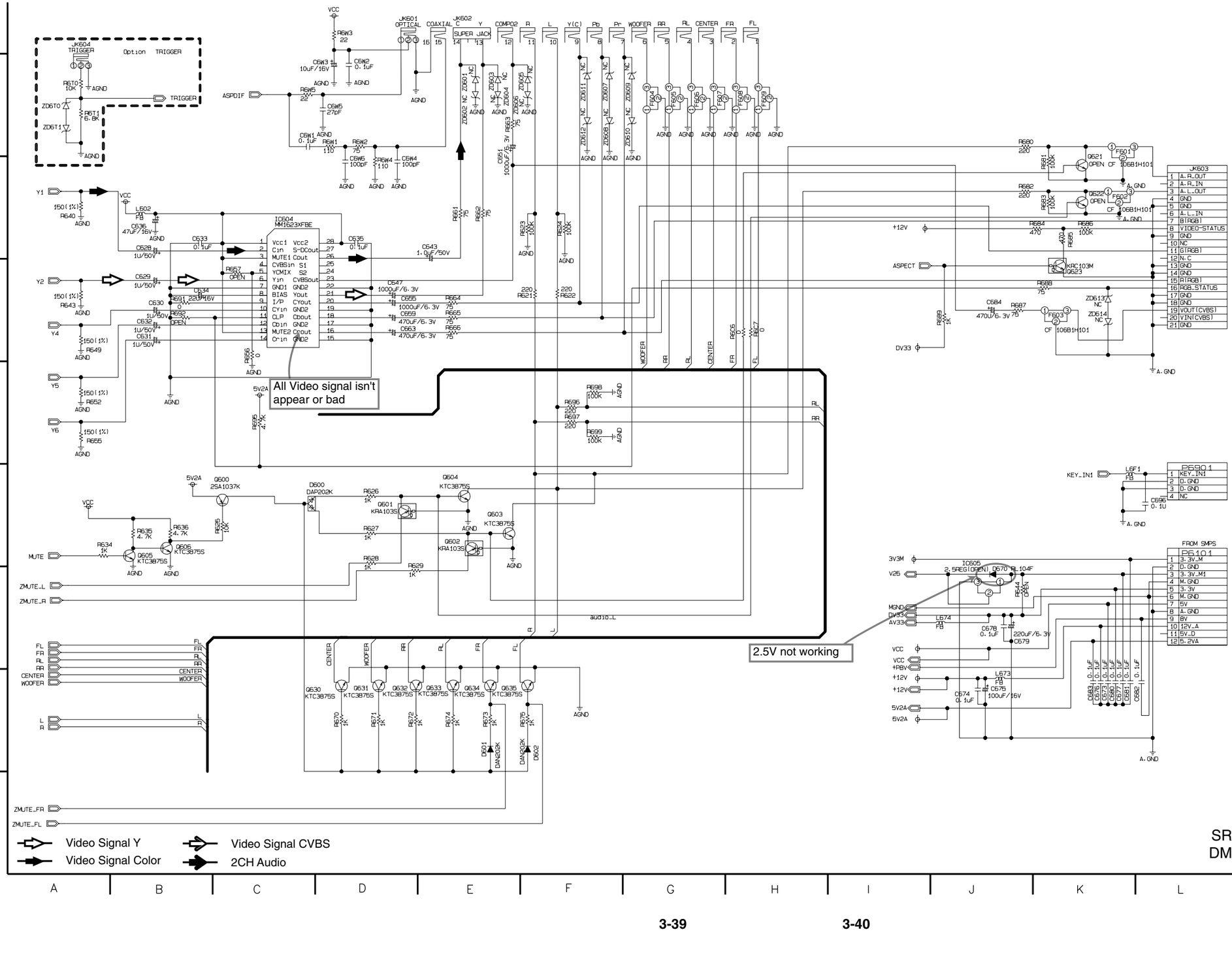


5. 2CH, 5.1CH CIRCUIT DIAGRAM



SR5850D
DM7912N

6. AV/JACK CIRCUIT DIAGRAM



SR5850C
DM7912N

• CIRCUIT VOLTAGE CHART

	IC201(MT1336E)		IC202(MOTOR)		IC501(MT1379)		IC502(SDRAM)		IC505(EEPROM)		IC510(BUFFER)		IC5A1(FLASH)		IC601(CS4391)		IC602(AMP)		IC604(MM1623XFBE)	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
1	1.03	2.99	0	0	1.22	1.22	3.27	3.28	0	0	0	0	0.08	0.16	3.28	3.29	5.52	5.49	5.09	5.08
2	5.11	5.08	0	0	0	0	1.18	1.26	0	0	2.59	2.55	1.82	0.45	3.28	3.28	5.52	5.48	2.43	2.42
3	0	0	8.04	8.01	0.96	0.9	1.1	1.52	0	0	0	0	2.84	0	0	1.65	5.51	5.47	5.09	5.08
4	0	0	0.12	0.06	2	2.06	0	0	0	0	2.59	2.56	2.83	3.12	1.63	1.64	0	0	1.45	0
5	5.11	5.07	0	0.06	0	1.51	0.66	1.07	3.28	3.29	0	0	0.69	0.26	1.64	1.65	5.51	5.48	0	0
6	0	1.95	3.64	3.69	1.48	1.47	0.85	1.12	3.28	3.29	3.24	3.23	1.72	0.25	1.59	1.61	5.51	5.48	1.45	1.69
7	0	0	3.62	3.61	0	1.56	3.27	3.28	0	0	0	0	1.92	0.9	0	0	5.52	5.47	0	0
8	0	0	3.64	3.53	3.2	1.52	0.51	0.97	3.28	3.29	0.14	0.08	1.7	1.45	3.28	0	12.03	12.03	2.47	2.46
9	5.11	0	3.6	3.76	0.12	0.06	3.06	0			0	0	0	0	3.28	3.29			0	0
10	5.11	5.08	3.62	2.43	0.12	0.06	0	0			0	0	0	0	0	0			1.14	1.76
11	5.11	5.08	3.63	4.85	3.25	3.25	0.06	0.98			0.15	0.09	3.27	3.29	5.01	5.01			0	0
12	0	0	3.62	3.72	1.41	1.49	3.18	0.87			0	0	3.56	3.55	2.31	2.31			2.42	2.42
13	5.11	0	3.64	3.57	1.41	1.41	3.27	3.28			0.15	0.08	3.29	3.29	4.96	0			5.09	5.08
14	5.11	5.08	8.04	8.01	0	0	2.94	2.56			5.19	5.19	0	0	1.42	2.41			2.43	2.42
15	2.84	2.81	1.45	1.48	1.42	1.42	0.47	0.42			0.14	0.09	0.23	0.06	2.4	2.39			0	0
16	1.45	1.43	0.27	1.39	3.3	0	2.93	3.01			5.25	5.24	0	0	0	0			2.49	2.47
17	2.08	2.07	0.29	1.32	2.53	2.53	3.21	3.22			0.15	0.08	0	0	5.11	5.09			0	0
18	1.37	1.42	1.45	1.43	1.42	2.27	2.87	2.95			5.23	5.23	0	0.87	2.41	2.41			2.48	2.47
19	0.69	2.3	1.45	1.43	1.42	1.39	0.15	1.32			0	0	1.98	2.64	2.43	2.43			0	0
20	2.4	0	1.45	0.82	0	0	0	0.05			5.25	5.25	2.28	2.18	0	0			1.18	2.3
21	2.35	0	1.45	1.43	2.61	2.58	3.09	1.32					2.13	1.96					1.76	2.17
22	5.11	5.08	1.45	1.43	0.75	1.46	3.09	1.32					1.67	2.01					0	0
23	0	0	1.47	1.37	2.83	1	3.09	1.32					1.99	1.72					1.76	2.24
24	2.59	3.2	1.45	1.43	1.9	0.89	3.09	1.33					1.93	2.19					0	0
25	0.19	1.88	1.45	1.43	1.72	0.39	3.27	3.29					2.05	1.94					0	0
26	1.58	0	0.95	0.91	0.68	0.31	0	0					0	0					0	0
27	2.56	3.13	0	0	2.84	3.16	0.15	1.36					0	0					0.06	0.05
28	2	2.01	1.45	1.43	0	0	1.84	2.36					0	0					5.09	0
29	2	2.06	5.15	5.11	2.85	0.66	1	2.32					1.49	2.03						
30	2.96	1.52	1.45	1.43	1.83	0.49	0.54	1.75					0.16	1.07						
31	0	0	1.45	1.43	0.91	1.39	0.06	0.06					1.96	1.25						
32	0.06	2.07	1.45	1.43	1.43	1.2	0.05	0.06					0.16	1.1						
33	0.07	2.07	1.46	1.45	1.51	1.57	0	0					0.99	2.2						
34	0	0	5.08	5.06	1.51	1.43	0.73	1.26					1.17	1.07						
35	0	0	5.15	5.11	3.3	3.29	1.48	1.55					0.79	1.82						
36	0	0	0	0	0.81	1.26	2.91	2.53					0.15	1.07						
37	5.13	0			1.45	1.02	0.07	0					3.29	3.3						
38	0	0			1.82	1.6	3.27	3.28					1.93	3.09						
39	0	0			1.2	1.5	1.06	1.05					0.16	1.07						
40	0	0			2	2.06	0.47	0.98					1.5	2.2						
41	0	0			2.17	1.95	0	0					0.16	1.07						
42	5.12	5.09			2.53	2.52	0	0.6					1.21	2.64						
43	5.12	5.09			1.96	1.9	1.12	1.24					0.16	1.08						
44	5.12	5.09			1.79	1.9	3.27	3.28					1.64	1.48						
45	5.12	5.09			0.8	1.72	1.21	0.99					2.05	2.06						
46	5.12	5.09			0.8	1.96	1.31	1.34					0	0						
47	0	0			0.8	1.84	0	0					0	0						
48	5.12	5.09			3.3	2.63	1.43	1.44					0.07	0.13						
49	5.12	0			0	0.13	0.88	1.01												
50	5.08	5.06			0	0.07	0	0												
51	5.09	5.07			0	0														
52	5.1	0			0	0														
53	0	0			0	0														
54	5.13	0			0	0														
55	0.09	0.2			3.25	3.27														
56	1.61	0			1.21	1.18														
57	0	0			0	0														
58	0	0			3.29	3.29														
59	0	0			0	0														
60	0	0			0	0														
61	3.28	0			2.59	2.57														
62	0	0			2.58	2.58														
63	0	0			0	0														
64	0	0			2.59	2.56														
65	0	0			3.29	3.29														
66	0.26	0			3.3	3.29														
67	5.12	5.08			3.29	3.29														
68	0	0			2.57	2.56														
69	5.12	0			5.19	5.18														
70	3.21	2.03			2.59	2.57														
71	3.46	2.2			0.12	0.08														
72	2.81	0			2.53	2.52														
73	0	0			2.59	2.57														
74	0.21	0.09			3.29	3.29														
75	0.22	0			2.61	2.61														
76	0	0.1			3.27	3.24														
77	0.21	0.09			0	0														
78	0.23	0.09			0.94	1.04														
79	0.21	0.08			0.78	1.06														
80	0.23	0.08			0.89	1.15														

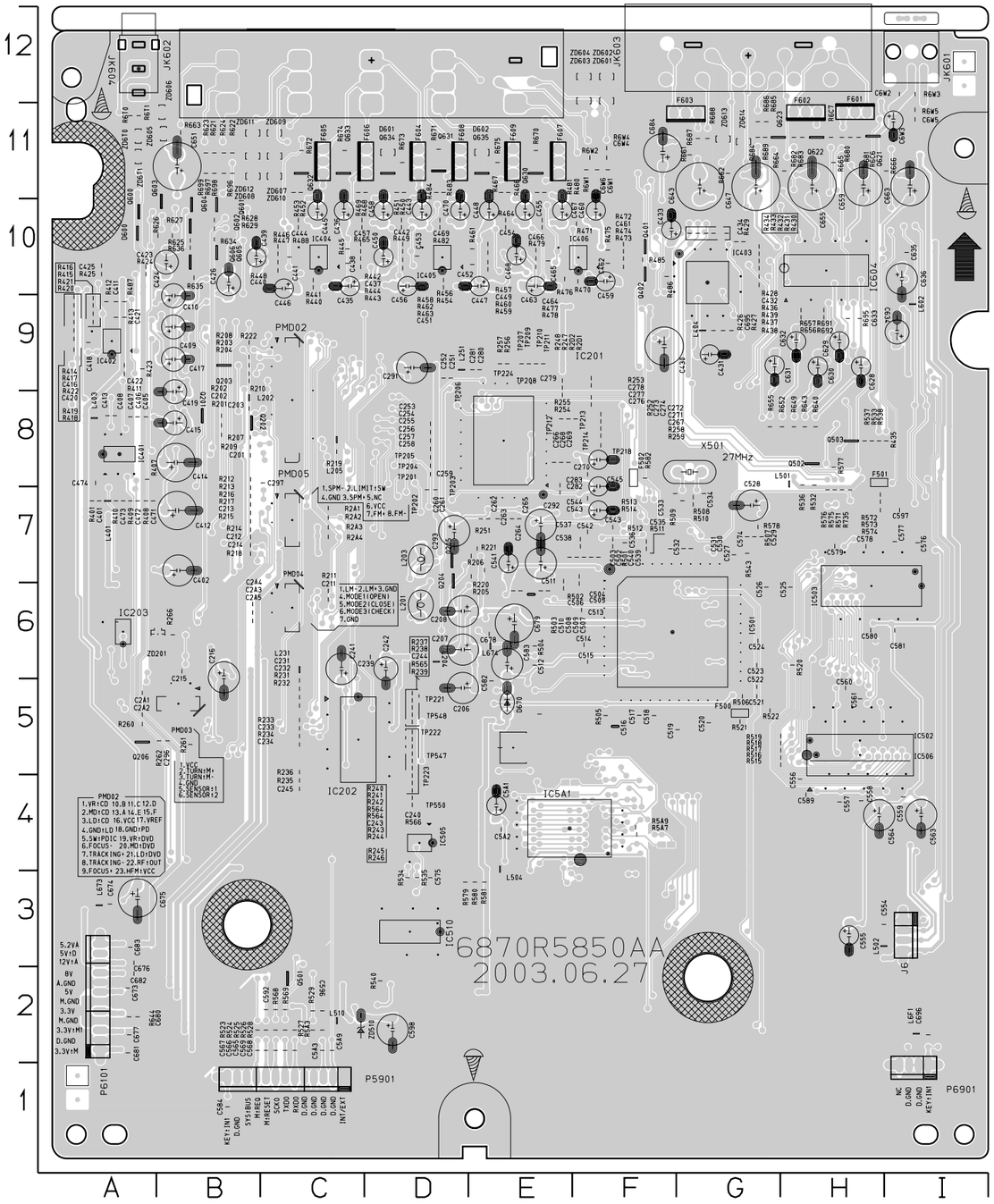
	IC201(MT1336E)		IC202(MOTOR)		IC501(MT1379)		IC502(SDRAM)		IC505(EEPROM)		IC510(BUFFER)		IC5A1(FLASH)		IC601(CS4391)		IC602(AMP)		IC604(MM1623XFBE)	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
81	0.22	0			0.99	1.34														
82	0	0			2.52	2.52														
83	0	0			3.09	1.33														
84	0.07	0			0.37	1.16														
85	0.07	2.27			3.08	1.1														
86	1.97	0			3.07	1.08														
87	1.96	1.9			0.59	1.04														
88	1.54	1.71			1.57	2.53														
89	0.19	2.22			3.2	3.13														
90	0.21	0			2.77	2.53														
91	0.22	0.06			0.22	1.68														
92	0.22	0			0	0														
93	0.23	0.06			3.32	1														
94	0.23	0.06			0.16	1.58														
95	2.28	0			3.31	1.62														
96	2.28	2.25			3.3	1.08														
97	2.27	1.23			3.3	3.29														
98	2.27	2.23			3.32	1.62														
99	2.27	2.23			0.16	1.09														
100	2.26	2.23			3.32	1.27														
101	2.08	2.17			3.3	1.32														
102	2.07	2.17			0	0														
103	2.07	2.18			1.56	1.55														
104	2.08	0			0.94	1.25														
105	0.14	0.15			0.41	0														
106	0.14	0.16			0.05	0.06														
107	0	0			0	0.06														
108	1.28	1.28			3.27	3.26														
109	5.18	5.05			0	0														
110	0.14	0.16			0.19	1.74														
111	0.15	0.15			3.3	3.29														
112	0.13	0.16			0.18	1.62														
113	0.14	0.15			2.98	2.38														
114	5.1	5.05			3.02	1.48														
115	2.07	2.09			0	0														
116	2.06	2.09			2.86	3.01														
117	0	0			2.86	2.54														
118	0	0			0	0														
119	0	0			0	2.5														
120	5.1	5.05			2.55	2.51														
121	0.13	0.15			3.03	1.4														
122	0.14	0.15			3.03	1.4														
123	0	0.18			0.22	1.39														
124	0	0.18			0.22	0.34														
125	5.08	5.03			0	0														
126	5.08	3.16			3.31	0.98														
127	0.06	2.08			0.26	1.64														
128	0	0			3.31	1.53														
129					3.3	1.15														
130					3.3	3.29														
131					3.31	1.49														
132					0.16	0.89														
133					3.3	0														
134					3.3	1.07														
135					0	0														
136					2.86	2.53														
137					2.86	2.53														
138					0.07	0.86														
139					0.09	0.99														
140					0.07	2.51														
141					0.07	0.94														
142					0.09	1.13														
143					0.07	1.19														
144					0.09	1.07														
145					0.09	0														
146					0	1.51														
147					0.09	1.25														
148					0.07	1.64														
149					0.06	0														
150					0	1.65														
151					0.07	3.29														
152					0	1.6														
153					0	1.64														
154					0	1.44														
155					0	0														
156					0	0														
157					0	1.63														
158					0	3.29														
159					0	3.27														
160					0	1.27														

	IC201(MT1336E)		IC202(MOTOR)		IC501(MT1379)		IC502(SDRAM)		IC505(EEPROM)		IC510(BUFFER)		IC5A1(FLASH)		IC601(CS4391)		IC602(AMP)		IC604(MM1623XFBE)	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAYS	TOP	PLAY
161					0	1.27														
162					0	2.35														
163					0	0														
164					0	0.73														
165					0	3.27														
166					0	0.5														
167					0	0														
168					0	0.53														
169					0	3.27														
170					0	0.59														
171					0	0														
172					3.01	0.72														
173					0	0.72														
174					0	0														
175					0	2.73														
176					0	3.13														
177					0	3.13														
178					0	3.25														
179					0	0														
180					0	0														
181					2.04	2.64														
182					0	2.52														
183					0	0														
184					0	0.09														
185					0	3.26														
186					-	-														
187					0	0.08														
188					0	0														
189					0	0														
190					0	0														
191					0.23	0														
192					0	3.29														
193					0	0														
194					0	0														
195					0	0														
196					0	0														
197					0	1.63														
198					0	0														
199					0	0														
200					0	2.15														
201					0	1.44														
202					0	1.44														
203					0	1.43														
204					0	1.43														
205					0	1.42														
206					0	2.1														
207					0	2.07														
208					0	1.41														
209					0	1.52														
210					0	1.43														
211					0	2.81														
212					0	3.28														
213					0	0.12														
214					0	0.12														
215					1.02	1.43														
216					0	1.43														

	Q201		Q202		Q203		Q204		Q205	
	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
E	0	0	0	0	0	0	5.14	4.34	5.14	5.1
C	0	5.09	0	0	0	0.19	0	2.42	0.5	0
B	0.68	0	0	5.04	5.04	0	5.08	3.64	5.08	5.05
	Q501		Q600		Q603		Q604		Q605	
	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
E	0	0	5.17	0	0	0	0	0	0	0
C	0	0	0	0.13	0	0	0	0	0	0
B	0.83	0.83	5.11	0	0.75	0	0.75	0.16	0.74	0.74

PRINTED CIRCUIT DIAGRAMS

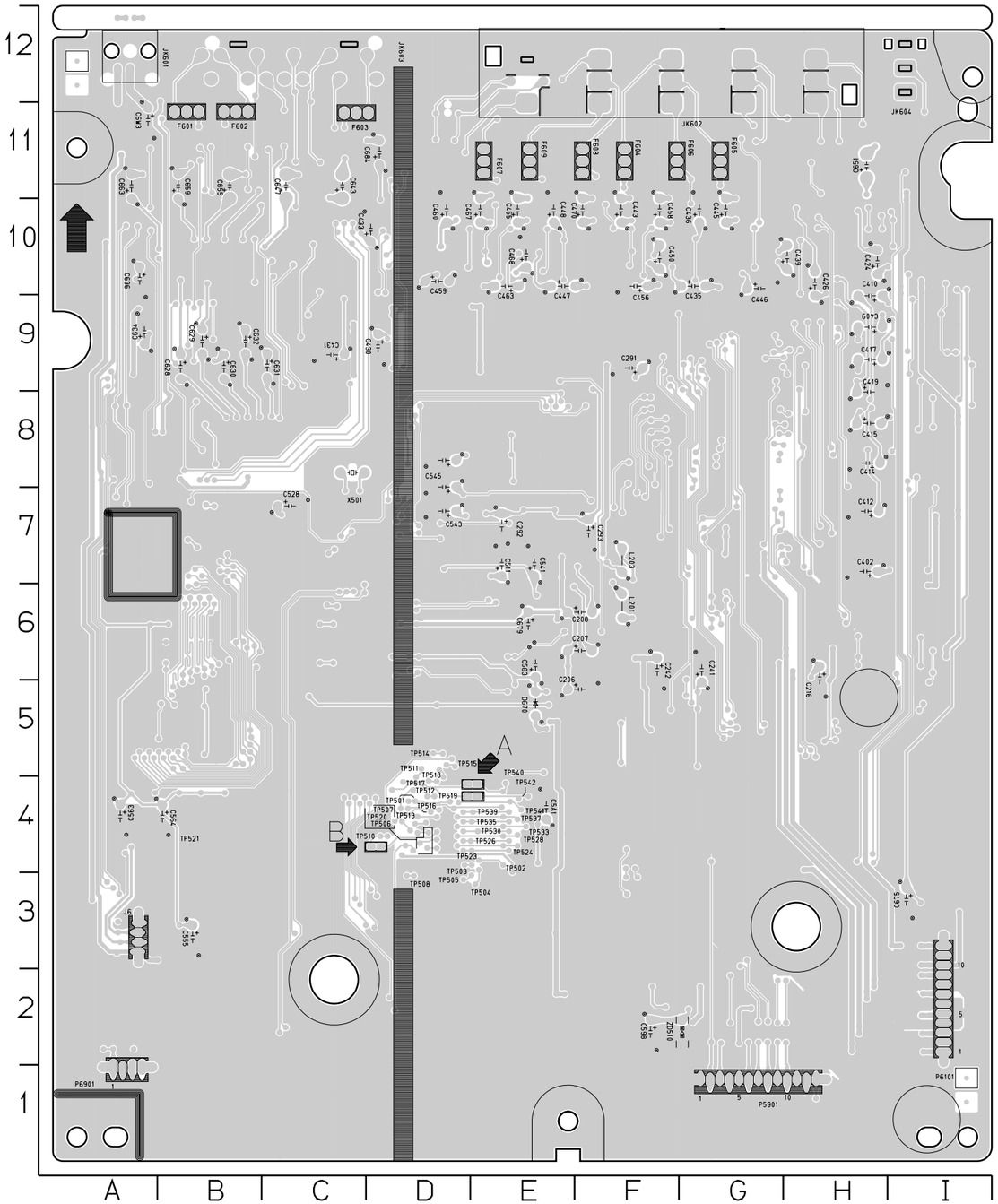
1. MAIN P.C.BOARD (TOP SIDE)



LOCATION GUIDE

C201	B8	C414	B8	C521	G5	C675	A3	P6901	I1	PIN0442	H8	R231	C5	R446	C10	R538	H8	R6W1	F11
C202	B8	C415	B8	C522	G5	C676	A3	PIN0001	E9	PIN0443	H8	R232	C5	R447	C10	R540	D2	R6W2	F11
C203	B8	C416	A9	C523	G6	C677	A2	PIN0002	F7	PIN0445	B10	R233	C5	R448	C10	R543	G7	R6W3	I12
C206	D5	C417	B9	C524	G6	C678	E6	PIN0010	F11	PIN0446	B10	R234	C5	R449	D10	R564	D5	R6W4	F11
C207	D6	C418	A9	C525	H6	C679	E6	PIN0011	F11	PIN0447	B10	R235	C4	R450	D11	R565	D5	R6W5	I11
C208	D6	C419	B8	C526	G6	C680	A2	PIN0012	F11	PIN0448	B10	R236	C5	R451	D11	R566	D4	R735	H7
C211	C6	C420	A9	C527	G7	C681	A2	PIN0021	B7	PIN0450	B10	R237	D5	R452	C11	R567	E5	TP201	D8
C212	B7	C421	A9	C528	G7	C682	A2	PIN0028	C5	PIN0451	B10	R238	D5	R453	C11	R568	C2	TP202	D7
C213	B7	C422	A9	C529	G7	C683	A3	PIN0029	C5	PIN0452	B10	R239	D5	R454	D10	R569	C2	TP203	D7
C214	B7	C423	A10	C530	G7	C684	F11	PIN0030	C5	PIN0454	H11	R240	D5	R456	D10	R571	H7	TP204	D8
C215	B6	C424	B10	C531	G7	C695	G9	PIN0031	C4	PIN0456	H11	R241	D5	R457	E10	R572	H7	TP205	D8
C216	B6	C425	A10	C532	F7	C696	I2	PIN0046	F8	PIN0457	G11	R242	D5	R458	D10	R573	H7	TP206	D8
C231	C5	C426	B10	C533	F7	C6W1	F11	PIN0047	F8	PIN0458	E11	R243	D5	R459	E10	R574	H7	TP207	E9
C232	C5	C430	F9	C534	G7	C6W2	I12	PIN0048	F9	PIN0459	D11	R244	D4	R460	E10	R575	H7	TP208	E9
C233	C5	C431	G9	C535	F7	C6W3	I11	PIN0049	F9	PIN0460	C11	R245	D4	R461	E10	R576	H7	TP209	E9
C234	C5	C432	G10	C536	F7	C6W4	F11	PIN0052	A8	PIN0461	C11	R246	D4	R462	D10	R577	H8	TP210	E9
C239	D6	C433	F10	C537	F7	C6W5	I11	PIN0055	A8	PIN0470	G10	R247	E9	R463	D10	R578	G7	TP211	E9
C240	D4	C434	G10	C538	F7	C6W6	F11	PIN0057	A10	PIN0479	G11	R248	E9	R464	E10	R579	D3	TP212	E8
C241	C6	C435	C10	C539	F7	D600	A10	PIN0058	A9	PIN0482	A11	R251	E7	R465	C10	R580	E3	TP213	F8
C242	D6	C436	C10	C540	F7	D601	D11	PIN0060	A9	PIN0487	A11	R252	E8	R466	E11	R581	E3	TP214	F8
C243	D5	C437	C10	C541	E7	D602	E11	PIN0061	A9	PIN0488	C11	R253	F9	R467	E11	R582	F8	TP215	F8
C244	D5	C438	C10	C542	F7	D670	E5	PIN0063	A9	PIN0489	C11	R254	E8	R468	D11	R5A3	C2	TP216	F8
C245	C4	C439	B10	C543	F7	F500	G5	PIN0064	A9	PIN0490	B11	R255	E9	R469	C11	R5A7	F4	TP217	F8
C251	D9	C440	C10	C544	F7	F501	H8	PIN0067	A9	PIN0491	G11	R256	E9	R470	F10	R5A9	F4	TP218	F8
C252	D9	C441	C10	C545	F7	F502	F8	PIN0068	A9	PMD02	C8	R257	E9	R471	F10	R621	B11	TP219	F7
C253	D8	C442	D10	C554	H3	F601	H11	PIN0069	A9	PMD03	B5	R258	F8	R472	F10	R622	B11	TP220	E7
C254	D8	C443	D10	C555	H3	F602	H11	PIN0070	G10	PMD04	C6	R259	F8	R473	F10	R623	B11	TP221	D5
C255	D8	C444	C10	C556	H4	F603	G11	PIN0072	C10	PMD05	C7	R260	A5	R474	F10	R624	B11	TP222	D5
C256	D8	C445	C10	C557	H4	F604	D11	PIN0073	C10	Q201	B8	R261	B5	R475	F10	R625	B10	TP223	D4
C257	D8	C446	C10	C558	H4	F605	C11	PIN0074	C10	Q202	B8	R262	B5	R476	E10	R626	B10	TP224	E9
C258	D8	C447	E10	C559	I4	F606	D11	PIN0075	C10	Q203	B9	R266	B6	R477	E10	R627	B10	TP225	E7
C259	D8	C448	E10	C560	H5	F607	E11	PIN0076	D10	Q204	D7	R2A1	C7	R478	E10	R628	B10	TP226	E7
C260	D7	C449	E10	C561	H5	F608	D11	PIN0077	E10	Q205	D7	R2A2	C7	R479	E10	R629	B10	TP544	F6
C261	D7	C450	D10	C563	I4	F609	E11	PIN0079	D10	Q206	A5	R2A3	C7	R480	E11	R634	B10	TP545	E6
C262	E7	C451	D10	C564	H4	IC201	E8	PIN0081	F10	Q401	F10	R2A4	C7	R481	E11	R635	B10	TP546	E7
C263	E7	C452	E10	C565	C2	IC202	C5	PIN0082	F10	Q402	F10	R2D1	E9	R482	D10	R636	B10	TP547	D5
C264	E7	C453	D10	C566	C2	IC203	A6	PIN0084	E10	Q501	C2	R2D2	E9	R483	D11	R640	H8	TP548	D5
C265	E7	C454	E10	C567	C2	IC401	A8	PIN0085	A7	Q502	H8	R401	A7	R484	D11	R643	H8	TP549	F6
C266	E8	C455	E10	C568	B2	IC402	A9	PIN0086	A7	Q503	H8	R407	A8	R485	F10	R644	A2	TP550	D4
C267	F8	C456	D10	C569	C2	IC403	G10	PIN0087	A7	Q600	A10	R408	A7	R486	F10	R649	H8	TP551	E5
C268	E8	C457	C10	C574	G7	IC404	C10	PIN0112	C2	Q601	B10	R409	A7	R487	A9	R652	H8	TP552	E4
C269	E8	C458	D10	C575	D3	IC405	D10	PIN0121	A10	Q602	B10	R410	A7	R488	C10	R655	G8	TP553	F5
C270	F8	C459	F10	C576	I7	IC406	F10	PIN0122	A10	Q603	B10	R411	A9	R501	F7	R656	H9	TP554	G7
C271	F8	C460	F10	C577	I7	IC501	F6	PIN0123	B10	Q604	B10	R412	A9	R502	E7	R657	H9	TP555	G7
C272	F8	C461	F10	C578	H7	IC502	H5	PIN0124	D11	Q605	B10	R413	A9	R503	E6	R661	G11	TP557	G7
C273	E8	C462	F10	C579	H7	IC503	H6	PIN0125	E11	Q606	B10	R414	A9	R504	E6	R662	G11	TP558	F7
C274	F8	C463	E10	C580	H6	IC505	D4	PIN0150	F8	Q621	H11	R415	A9	R505	F5	R663	B11	TP560	F4
C276	F8	C464	E10	C581	I6	IC506	H5	PIN0152	F8	Q622	H11	R416	A9	R506	G5	R664	H11	TP561	G4
C277	F8	C465	E10	C582	E5	IC510	D3	PIN0156	E9	Q623	G11	R417	A9	R507	G7	R665	H11	TPALE	F5
C278	F9	C466	E10	C583	E6	IC5A1	E4	PIN0160	D9	Q630	E11	R418	A9	R508	G7	R666	I11	TPMA11	H5
C279	E9	C467	E10	C584	B1	IC604	H10	PIN0161	D9	Q631	D11	R419	A9	R509	G7	R670	E11	TPRFRPC	F7
C280	E9	C468	E10	C589	H4	IC605	E5	PIN0163	D9	Q632	C11	R420	A9	R510	G7	R671	D11	TPURD#	F5
C281	E9	C469	D10	C592	C2	J6	I3	PIN0169	D8	Q633	C11	R421	A9	R511	F7	R672	C11	TPUWR#	F5
C282	E7	C470	D10	C596	C2	JK601	I12	PIN0170	D8	Q634	D11	R422	A9	R512	F7	R673	D11	X501	G8
C283	E8	C471	A7	C597	I7	JK602	D12	PIN0255	G10	Q635	E11	R423	A9	R513	F7	R674	C11	ZD201	B6
C291	D9	C472	A7	C598	D2	JK603	G12	PIN0260	G10	R201	B8	R424	A10	R514	F7	R675	E11	ZD510	C2
C292	E7	C473	A7	C5A1	E4	JK604	A12	PIN0261	G10	R202	B8	R425	A10	R515	H5	R680	H11	ZD601	F12
C293	D7	C474	A8	C5A2	E4	L201	D6	PIN0262	G10	R203	B9	R426	G9	R516	H5	R681	H11	ZD602	F12
C295	F8	C502	F7	C5A3	C2	L202	B8	PIN0268	D10	R204	B9	R427	G9	R517	H5	R682	H11	ZD603	F12
C296	B5	C503	E7	C5A9	C2	L203	D7	PIN0269	F10	R205	E7	R428	G10	R518	H5	R683	H11	ZD604	F12
C297	C8	C504	F7	C628	H9	L204	D6	PIN0389	D3	R206	E7	R429	G10	R519	H5	R684	G11	ZD605	B11
C2A1	A5	C505	F6	C629	H9	L205	C8	PIN0391	D3	R207	B8	R430	G10	R520	H6	R685	G11	ZD606	B11
C2A2	A5	C506	E6	C630	H9	L231	C6	PIN0393	D3	R208	B9	R431	G10	R521	G5	R686	G11	ZD607	C11
C2A3	B6	C507	E6	C631	G9	L251	D9	PIN0396	H9	R209	B8	R432	G10	R522	G5	R687	G11	ZD608	B11
C2A4	B6	C508	E6	C632	H9	L401	A7	PIN0398	H9	R210	B9	R433	G10	R523	C2	R688	G11	ZD609	C11
C2A5	B6	C509	E6	C633	H9	L403	A8	PIN0399	H9	R211	C6	R434	G10	R524	C2	R689	G11	ZD610	C11
C401	A7	C510	E6	C634	I9	L404	G9	PIN0409	C8	R212	B8	R435	I8	R525	C2	R691	H9	ZD611	B11
C402	B7	C511	E7	C635	I10	L501	H8	PIN0424	B8	R213	B7	R436	G10	R526	C2	R692	H9	ZD612	B11
C405	A8	C512	E6	C636	I10	L502	H3	PIN0425	B8	R214	B7	R437	G10	R527	C2	R695	H9	ZD613	G11
C406	A8	C513	F6	C643	G11	L504	E4	PIN0427	B8	R215	B7	R438	G10	R528	B2	R696	B11	ZD614	G11
C407	A8	C514	F6	C647	G11	L510	C2	PIN0429	B9	R216	B7	R439	G10	R529	C2	R697	B11	ZD6T0	A11
C408	A8	C515	F6	C651	B11	L602	I9	PIN0433	A5	R217	B7	R440	C10	R532	H8	R698	B11	ZD6T1	A11
C409	B9	C516	F5	C655	H11	L673	A3	PIN0435	F10	R218	B7	R441	C10	R533	H8	R699	B11		
C410	B9	C517	F5	C659	H11	L674	E6	PIN0436	F10	R219	C8	R442	C10	R534	D3	R6C6	H11		
C411	A9	C518	F5	C663	I11	L6F1	I2	PIN0437	F10	R220	E7	R443	C10	R535	D3	R6C7	H11		
C412	B7	C519	G5	C673	A2	P5901	C1	PIN0439	C2	R221	E7	R444	C10	R536	H8	R6T0	A11		
C413	A8	C520	G5	C674	A3	P6101	A2	PIN0440	H8	R222	B9	R445	C10	R537	H8	R6T1	A11		

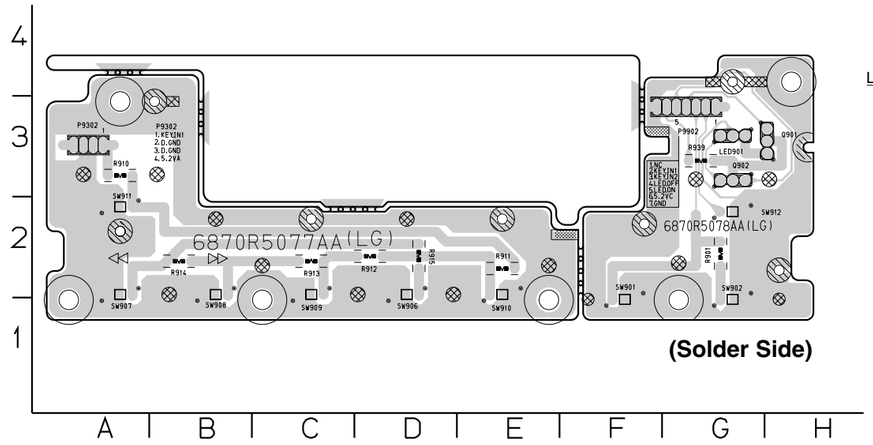
2. MAIN P.C.BOARD (BOTTOM SIDE)



LOCATION GUIDE

PIN0003	H5
PIN0004	I5
PIN0006	G6
PIN0007	G6
PIN0016	H8
PIN0018	G6
PIN0020	G7
PIN0022	H7
PIN0024	I5
PIN0027	G5
PIN0062	I9
PIN0078	F10
PIN0083	E10
PIN0165	E8
PIN0167	E8
PIN0225	I7
PIN0374	F3
PIN0408	G8
PIN0410	G9
PIN0411	G9
PIN0412	H9
PIN0413	G9
PIN0414	H8
PIN0415	H8
PIN0416	G8
PIN0417	H5
PIN0418	G6
PIN0420	G7
PIN0422	G7
PIN0444	I10
PIN0471	C10
PIN0472	C10
PIN0473	C10
TP501	D4
TP502	E4
TP503	D4
TP504	E3
TP505	D3
TP506	D4
TP507	D4
TP508	D3
TP510	D4
TP511	D5
TP512	D4
TP513	D4
TP514	D5
TP515	D5
TP516	D4
TP517	D4
TP518	D5
TP519	D4
TP520	D4
TP521	B4
TP523	E4
TP524	E4
TP526	E4
TP528	E4
TP530	E4
TP533	E4
TP535	E4
TP537	E4
TP539	E4
TP540	E4
TP541	E4
TP542	E4
TP559	B7
TPICE	C7

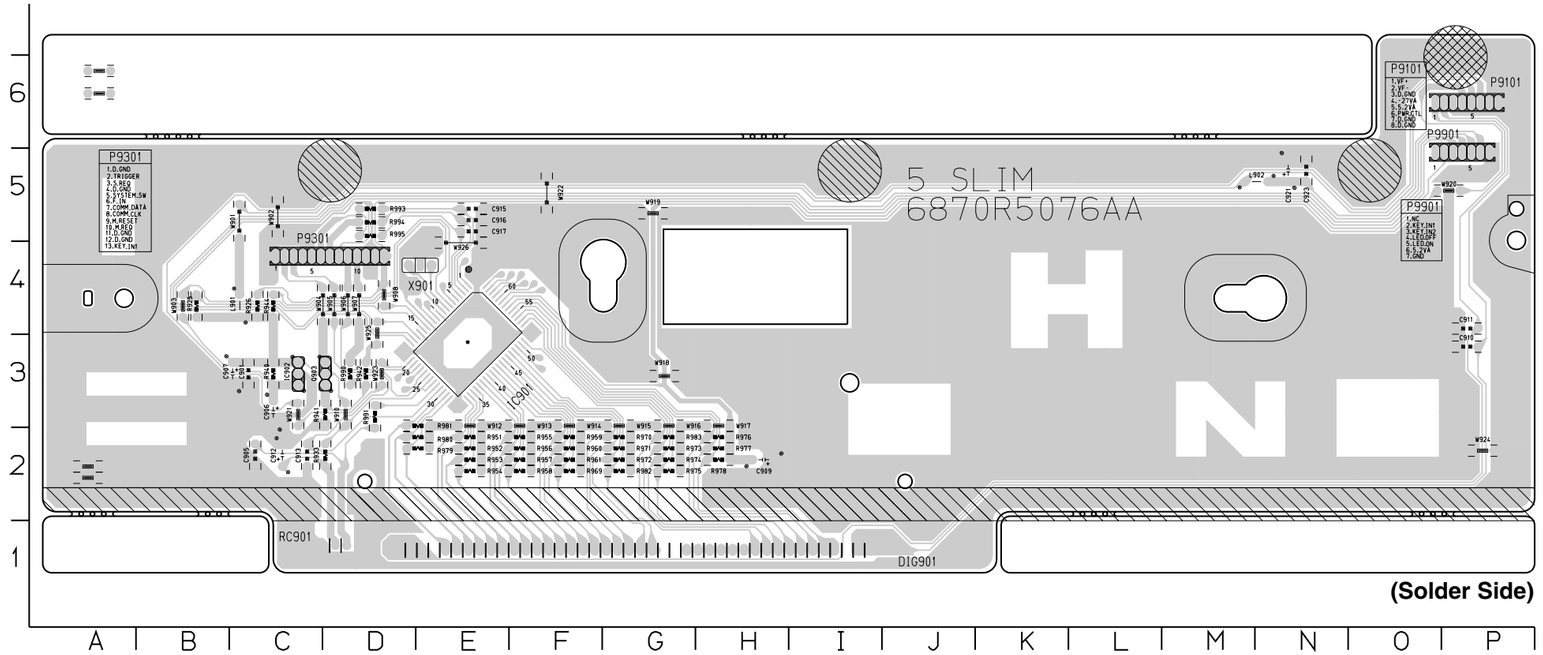
3 KEY P.C.BOARD



LOCATION GUIDE

LED901	G3
P9302	A3
P9902	G3
Q901	H3
Q902	G3
R901	G2
R910	A3
R911	E2
R912	D2
R913	C2
R914	B2
R915	D2
R939	G3
SW901	F1
SW902	G1
SW906	D2
SW907	A2
SW908	B2
SW909	C2
SW910	E2
SW911	A2
SW912	G2

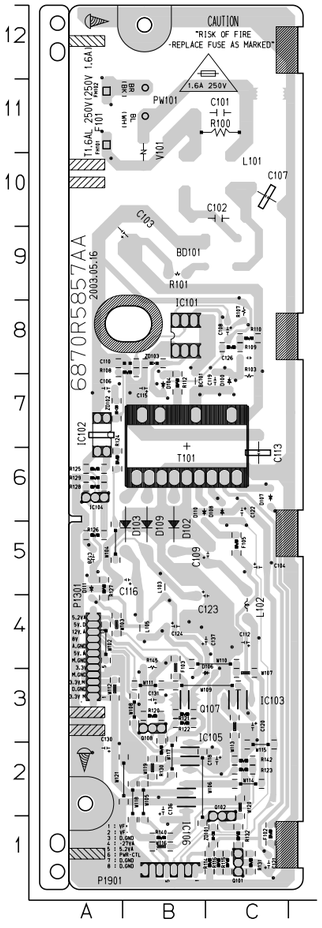
4. TIMER P.C.BOARD



LOCATION GUIDE

C901	C3	R953	E2
C905	C2	R954	E2
C906	C3	R955	F2
C907	C3	R956	F2
C909	H2	R957	F2
C910	P3	R958	F2
C911	P4	R959	F2
C912	C2	R960	F2
C913	C2	R961	F2
C915	E5	R969	F2
C916	E5	R970	G2
C917	E5	R971	G2
C921	N5	R972	G2
C923	N5	R973	G2
DIG901	I1	R974	G2
IC902	C3	R975	G2
L901	C4	R976	H2
L902	N5	R977	H2
P9101	O6	R978	H2
P9301	C4	R979	E2
P9901	O5	R980	E2
Q903	D3	R981	E3
R925	B4	R982	G2
R926	C4	R983	G2
R933	D2	R990	D3
R940	C3	R991	D3
R941	D3	R993	D5
R942	D3	R994	D5
R944	C4	R995	D5
R951	E2	RC901	D1
R952	E2	X901	E4

5. POWER P.C.BOARD



(Solder Side)

LOCATION GUIDE

BC101	B7	IC104	A6
BD101	C9	IC105	B2
C101	C11	IC106	B2
C102	C10	L101	C10
C103	B9	L102	C4
C104	C5	L103	B5
C106	A7	L105	B4
C107	C10	P1301	A3
C108	C8	P1901	B1
C109	C5	PW101	B11
C110	B8	Q101	C1
C112	C4	Q102	C1
C113	C6	Q107	B3
C115	B7	Q108	B3
C116	B5	R100	C11
C118	C2	R101	B9
C119	C7	R103	C7
C120	C3	R107	C8
C121	C1	R108	B8
C122	C6	R109	C8
C123	C4	R110	C8
C124	B4	R112	B7
C126	C8	R114	C1
C128	A5	R115	C1
C130	A2	R116	C1
C131	B3	R120	B3
C136	B2	R121	B3
C137	C4	R122	B3
D100	C7	R123	C2
D102	B5	R124	A6
D103	B5	R125	A6
D104	B7	R126	A5
D106	C3	R127	A5
D107	C6	R128	A6
D108	C6	R129	A6
D109	B5	R130	B2
D110	B6	R131	C1
D111	A5	R132	C1
F102	C1	R140	B1
F103	B4	R142	C2
F105	C5	R145	B4
FH101	A11	T101	B7
FH102	A11	V101	B11
IC101	B8	ZD101	C1
IC102	A6	ZD102	A7
IC103	C3	ZD103	B8

SECTION 4 MECHANISM

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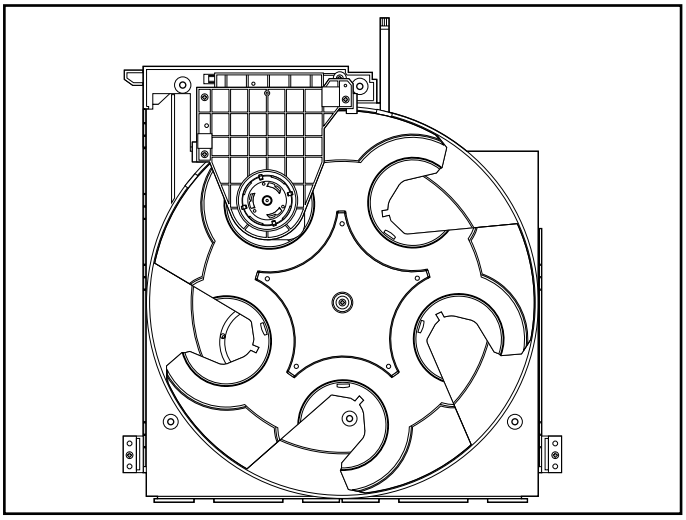
EXPLODED VIEW

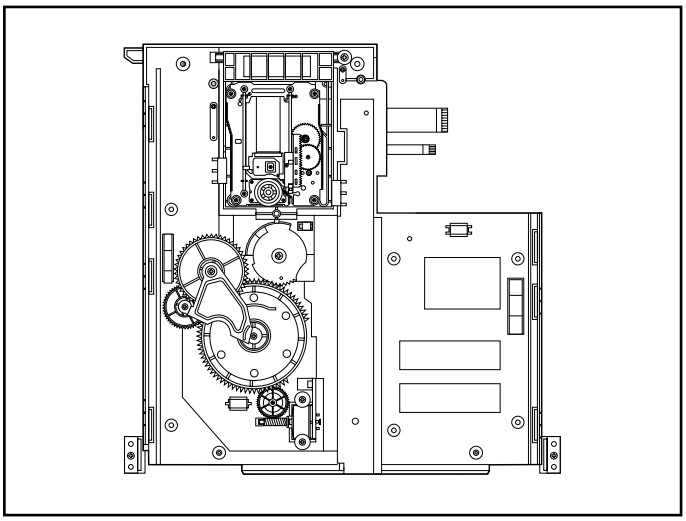
1. Deck Mechanism Exploded View....4-5

DECK MECHANISM PARTS LOCATION

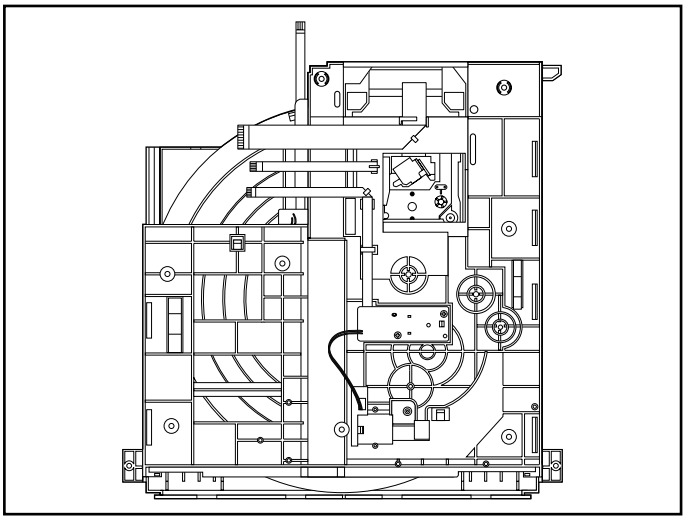
• Top View (With Tray)



• Top View (Without Tray)



• Bottom View



Procedure Starting No.		Parts	Fixing Type	Disassembly	Figure
	1	Holder Assembly Clamp	3 Screws 2 Connectors 1 Hook	Top	4-1
1	2	Plate Calmp		Top	4-1
1,2	3	Magnet Clamp		Top	4-1
1,2,3	4	Upper Clamp		Top	4-1
1,2,3,4	5	Holder Clamp		Top	4-1
	6	Base Assembly Tray	2 Locking Tabs	Top	4-2
	7	Tray Disc	1 Screw	Top	4-2
6	8	Roller Base Tray	2 Locking Tabs	Bottom	4-2
6	9	PCB Assembly Tray	2 Screws 1 Connector	Bottom	4-2
6,7	10	Motor Assembly Tray	2 Screws	Top	4-2
6,7,10	11	Gear Tray		Top	4-2
6,7,10,11	12	Gear Wheel Tray		Top	4-2
6,7,8,9,10,11,12	13	Base Tray		Top	4-2
1	14	Frame Assemly Up/Down	1 Screw	Top	4-3
	15	PCB Assembly Junction	2 Screws 5 Connectors	Bottom	4-3
1	16	Base Assembly Sled Damper	4 Screws 1 Connector	Top	4-3
1	17	Gear Assembly Feed	1 Locking Tab	Top	4-3
1,17	18	Gear Middle		Top	4-3
1,17	19	Gear Assembly Rack	1 Screw	Top	4-3
1	20	Rubber Damper		Top	4-3
1,15,16,17,18,19,20	21	Frame Up/Down		Top	4-3
1,14	22	Base Assembly Main		Top	4-4
	23	PCB Assembly Main Mode	2 Connectors 3 Screws	Bottom	4-4
6	24	Gear Slider	1 Screw	Top	4-4
6,24	25	Gear Exchange	1 Screw	Top	4-4
6,24	26	Gear Main	1 Screw	Top	4-4
6,24,26	27	Gear Up/Down	1 Screw	Top	4-4
6,24,26	28	Gear Wheel Main	1 Screw	Top	4-4
6,24,26,28	29	Gear Loading		Top	4-4
6,28	30	Motor Assembly Main	2 Screws 1 Locking Tab	Top	4-4
1,6,14,23,24,25,26,27,28,29,30	31	Base Main		Top	4-4

Note

When reassembling, perform the procedure in reverse order.

The “Bottom” on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

DECK MECHANISM DISASSEMBLY

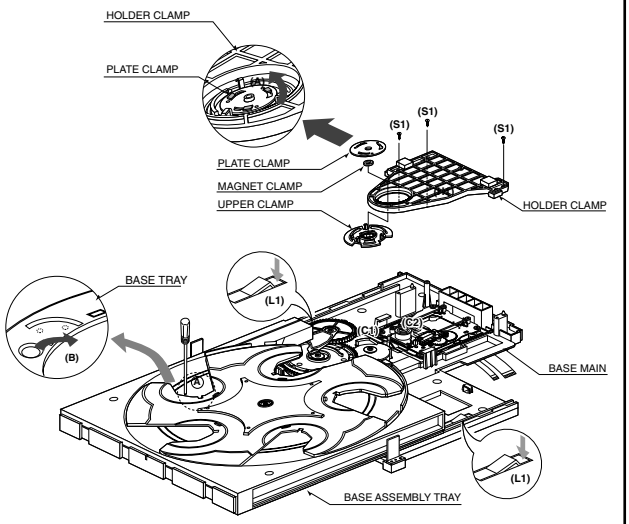


Fig. 4-1

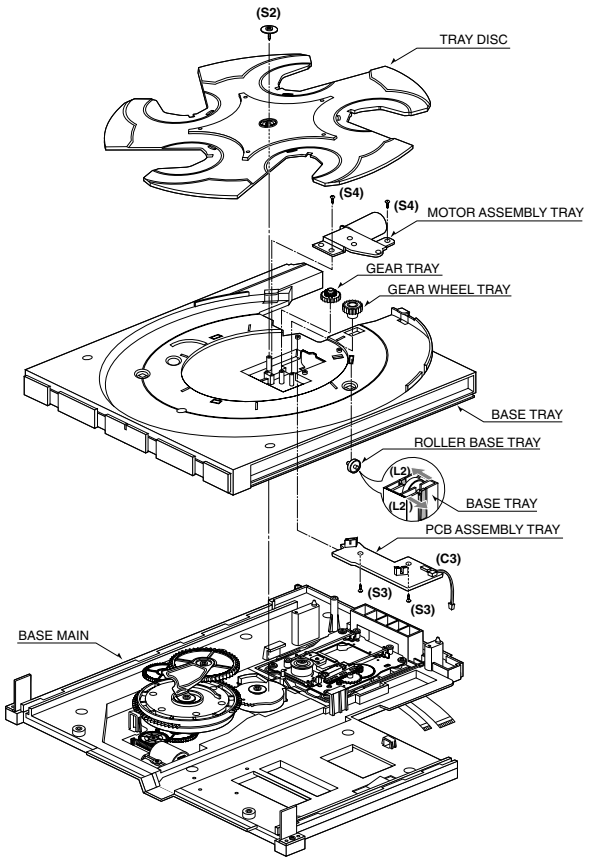


Fig. 4-2

1. Holder Assembly Clamp(Fig. 4-1)

1) Release 3 Screws(S1).
2) Unlock The Connectors (C1), (C2) from the Hook(H1).

1-1. Plate Clamp

1) Hold and fix the Upper Clamp under the Holder Assembly Clamp, and then turn the Plate Clamp to the counterclockwise direction(arrow(A)).

1-2. Magnet Clamp

1-3. Upper Clamp

1-4. Holder Clamp

Note

• When reassembling, hold and fix the Upper Clamp as above No. 1-1(1), and then turn the Plate Clamp to the clockwise direction.

2. Base Assembly Tray(Fig. 4-1)

1) Turn the Ⓐ portion to the direction of arrow(B) to move the Base Assembly Tray in front of you.
2) Push down two Locking Tabs(L1) located to both sides of the Base Main, and then pull the Base Assembly ray in fornt of you.

2-1. Tray Disc(Fig.4-2)

1) Release Screw(S2).

Note

• Put the Base Assembly Tray face down(Bottom side).

2-2. Roller Base Tray

1) Unlock the two Locking Tabs(L2).

2-3. PCB Assembly Tray

1) Release two Screws(S3).
2) Unconnect the Connector(C3).

Note

• Put the Base Assembly Tray on original position(Top Side).

2-4. Motor Assembly Tray

1) Release 2 Screws(S4).

2-5. Gear Tray

2-6. Gear Wheel Tray

2-7. Base Tray

DECK MECHANISM DISASSEMBLY

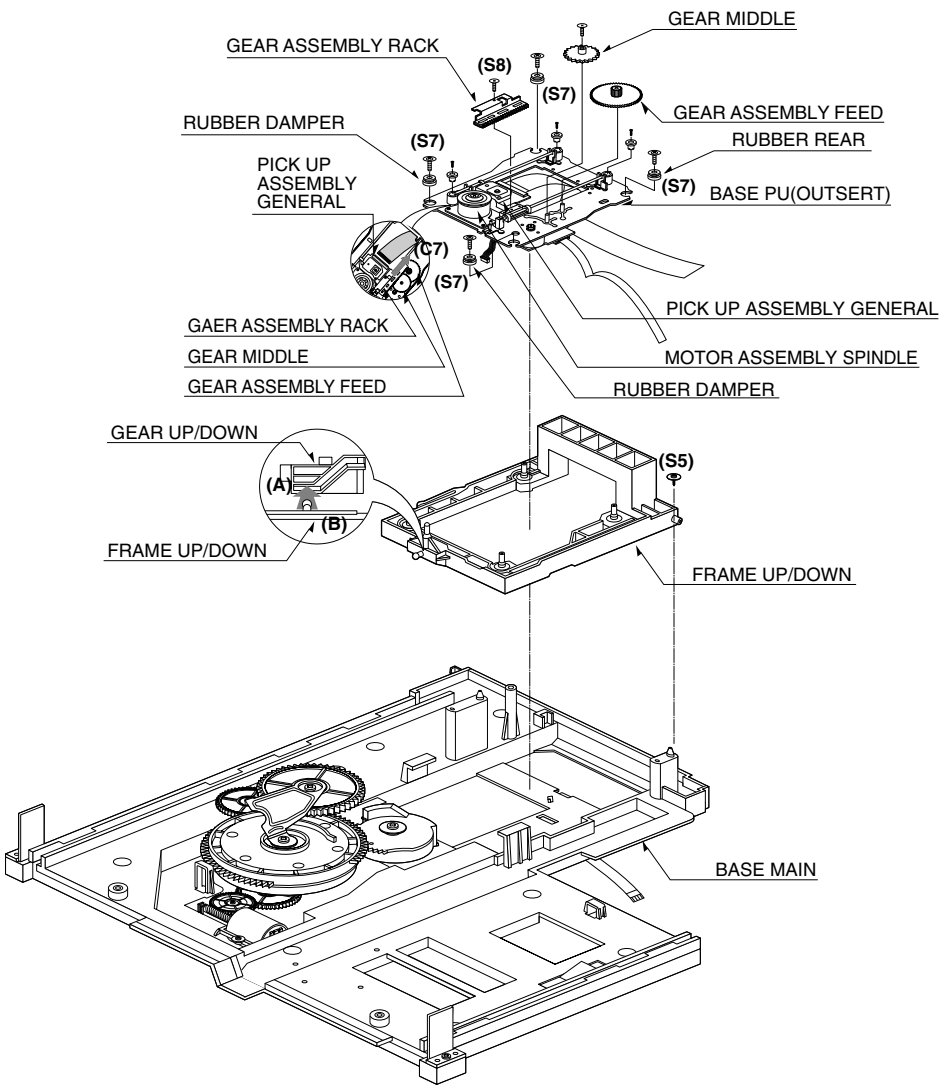


Fig. 4-3

3. Frame Assembly Up/Down(Fig. 4-3)

1) Release Screw(S5).

3-1. PCB Assembly Junction

1)Unconnect the 5 Connectors(C5), (C6).
2)Release 2 Screws(S6).

3-2. Base Assembly Sled Damper

Note

• Put the Base Assembly Main on original position(Top side)

1) Release 4 Screws(S7).
2) Disconnect the Connector(C7).

3-2-1. Gear Assembly Feed

1) Look the Locking Tab(L3) in direction of arrow.

3-2-2. Gear Assembly Middle

3-2-3. Gear Assembly Rack

1) Release the Screw(S8).

3-3. Rubber Damper

3-4. Frame Up/Down

DECK MECHANISM DISASSEMBLY

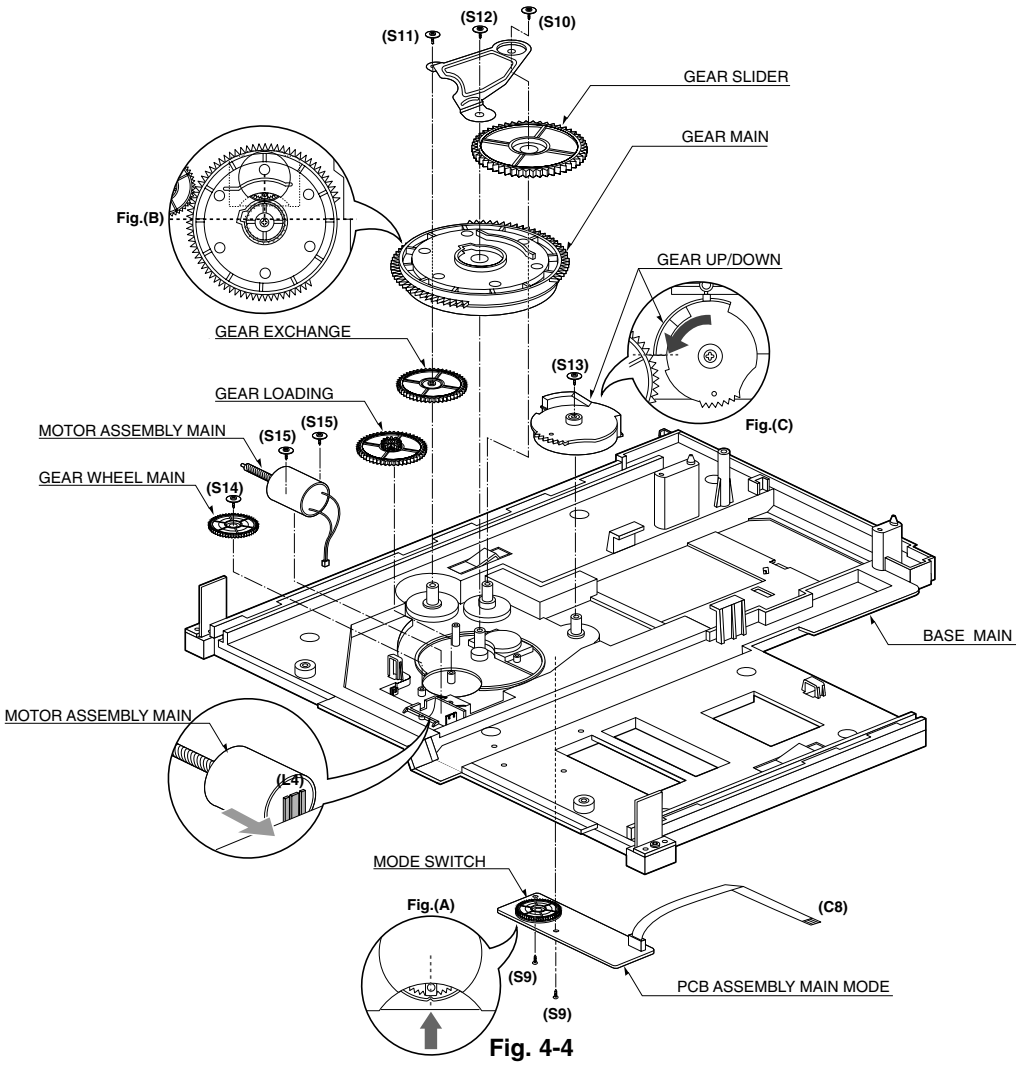


Fig. 4-4

4. Base Assembly Main(Fig. 4-4)

Note

- Put the Base Assembly Main face down(Bottom Side).

4-1. PCB Assembly Main Mode

1) Unconnect the Connectors (C8), (C9).
2) Release three Screws(S9).

Note

- When reassembling, align the Mode Switch position as Fig.(A).
- Put the Base Assembly Main on original position(Top Side)

4-2. Gear Slider

1) Release Screw(S10).

4-3. Gear Exchange

1) Release Screw(S11).

4-4. Gear Main

1) Release Screw(S12).

Note

- When reassembling, align the (A) position of the Gear Main to the (B) position of Mode Switch as Fig.(B)

4-5. Gear Up/Down

1) Release Screw(S13).

Note

- Reassembling, turn the Gear Up/Down in direction of arrow as Fig.(C).

4-6. Gear Wheel Main

1) Release Screw(S14).

4-7. Gear Loading

4-8. Motor Assembly Main

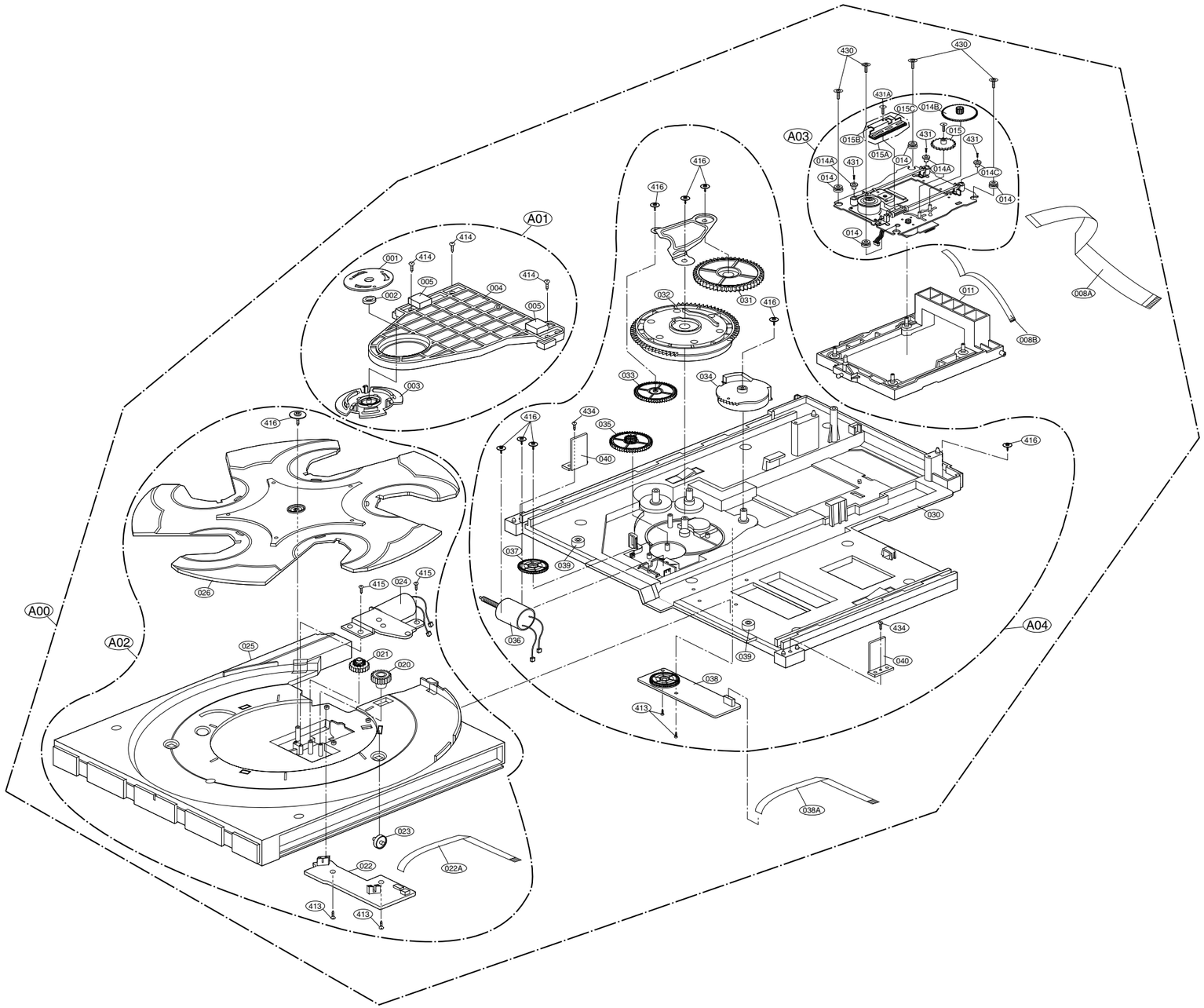
1) Release 2 Screws(S15).
2) Unlock the Locking Tab(L4).

4-9. Base Main

MEMO

EXPLODED VIEWS

1. Deck Mechanism Exploded View



MEMO

MEMO

NOTES) ⚠ Warning
Parts that are shaded are critical
With respect to risk of fire or
electricial shock.

SECTION 5 REPLACEMENT PARTS LIST

MODELS : A) DVB352(DM7912NM) HA1UZZ(ZENITH)

RUN DATE:18.JULY.2003

.MECHANICAL SECTION

NSP:Not Service Part

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION							
		A00	6721RH0342A	O	DECK ASSEMBLY,VIDEO	DECK/MECHA DPM-4 (DVD-CD R/RW	NSP
		A01	4931R-0081A	O	HOLDER ASSEMBLY	DECK/MECHA CLAMP DPM4 - SH	
		A02	3041R-M019A	O	BASE ASSEMBLY	DPM4 TRAY - SH	
		A03	3041R-M020A	O	BASE ASSEMBLY	SLED DP-7C(DPM4) - SH	
		A04	3041R-0068B	O	BASE ASSEMBLY	DPM3 MAIN -SH	
PARTS SECTION							
		001	3300R-0547A	O	PLATE	CLAMP	NSP
		002	5016H-1016B	O	MAGNET	CLAMP(LDM-R608,10*5,1*1.5T)	NSP
		003	4860R-0023A	O	CLAMP	DECK/MECHA UPPER (DPM-4) MOLD	NSP
		004	4930R-0345A	O	HOLDER	CLAMP(DPM3)	
		005	5040R-0087A	O	RUBBER	H/CLAMP	
		008A	6850R-JW30E	O	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23	
		008B	6850R-GH18Z	O	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 8	
		011	3210R-M003A	O	FRAME	UP/DOWN (DPM-4) MOLD	
		014	5040R-0075B	O	RUBBER	DAMPER DP7 (CHUNG PUNG 30)	
		014A	5006R-0044A	O	CAP	SKEW-T DP7C	
		014B	4470R-0131A	O	GEAR	PINION DP7C	
		014C	5006R-0043A	O	CAP	SKEW DP7C	
		015	4470R-0130A	O	GEAR	MIDDLE DP7C	
		015A	4471R-0013A	O	GEAR ASSEMBLY	DECK/MECHA RACK DP-7C	
		015B	4470R-0129A	O	GEAR	RACK B DP7C	
		015C	4470R-0120A	O	GEAR	RACK U DP7	
		020	4470R-0118A	O	GEAR	WHEEL TRAY	
		021	4470R-0074A	O	GEAR	TRAY	
		022	6871R-9232B	O	PWB(PCB) ASSEMBLY,TOTAL	DPM3 TRAY-SH	
		022A	6850R-JF20A	O	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 6	
		023	4580R-0006A	O	ROLLER	BASE TRAY	
		024	4681R-0030B	O	MOTOR ASSEMBLY	TRAY - SH	
		025	3040R-0082A	O	BASE	TRAY(DPM3)	
		026	3390R-0021A	O	TRAY	DECK/MECHA DISC (DPM-4) MOLD	
		030	3040R-0081A	O	BASE	MAIN(DPM3)	NSP
		031	4470R-0069A	O	GEAR	SLIDER	
		032	4470R-0067A	O	GEAR	MAIN	
		033	4470R-0070A	O	GEAR	EXCHANGE	
		034	4470R-0068B	O	GEAR	UP/DOWN	
		035	4470R-0071A	O	GEAR	LOADING	
		036	4681R-0029B	O	MOTOR ASSEMBLY	MAIN(DPM3) -SH	
		037	4470R-0072A	O	GEAR	WHEEL MAIN	
		038	6871R-9233B	O	PWB(PCB) ASSEMBLY,TOTAL	DPM3 MAIN-MODE -SH	
		038A	6850R-GG24Z	O	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 7	
		039	5040R-0052A	O	RUBBER	MAIN	
		040	4930R-0370A	O	HOLDER	MD BRACKET	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
SCREW							
		413	4000R-0006A	O	SCREW	Audio TAPTITE 3*8(353-025B)	
		414	353-051E	O	SCREW	SPECIAL (3X12)	
		415	1MPC0301118	O	SCREW MACHINE,PAN HEAD	#NAME?	
		416	4404R-0017A	O	MECHANISM	Audio 3*12*12(88H-0004)	
		430	1SZZH-1003A	O	SCREW,	+ D2.0 6MM SWRCH16A/NIY 4.5MM	
		431	1SZZH-1007B	O	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		431A	1SZZR-0023B	O	SCREW,DRAWING	+ 1 D1.7 L6.0 SWRCH16A/FZY RAC	
		434	353-051E	O	SCREW	SPECIAL (3X12)	
.CABINET & MAIN FRAME SECTION							
ASSEMBLY PARTS SECTION							
		A42	6871R-5097A	O	PWB(PCB) ASSEMBLY,TOTAL	DM6000 SH KEY1	
		A43	3501RF4030L	O	BOARD ASSEMBLY	DVD DM7912NM HA1UZZ FRONT	
		A46	6885R-0700A	O	SUB PWB(PCB) ASSEMBLY	DM7912NM HA1UZZ 55(U),53(S),00	
		A47	6871R-6857A	O	PWB(PCB) ASSEMBLY,TOTAL	DM7000 POWER	
		A48	6871R-5096A	O	PWB(PCB) ASSEMBLY,TOTAL	DM6000 SH TIMER	
		A49	6871R-5098B	O	PWB(PCB) ASSEMBLY,TOTAL	DM6912N HA1UZZ 5 SLIM KEY2 ZEN	
PARTS SECTION							
		250	3111R-D001D	O	CASE ASSEMBLY	DM6912N HA1UZZ TOP	
		260	3140R-0056A	O	CHASSIS	DVD DM6000 MAIN	NSP
		261A	5040R-0069D	O	RUBBER	FOOT(SILICONE SPONGE DS-08 T=	
		261	4930R-0350A	O	HOLDER		
		275	4930R-0351A	O	HOLDER	DVD DM6000 BRACKET	
		280	3721R-F300L	O	PANEL ASSEMBLY,FRONT[NORMAL PA	DM7912NM HA1UZZ	NSP
		283	3581R-T067G	O	DOOR ASSEMBLY	DVD DM7912NM HA1UZZ TRAY	
⚠		300	6410RAHX02B	O	POWER CORD	SP-120P/JL001 CHAUS/JULIAN UL/	
		320	3720R-D068W	O	PANEL,VIDEO	DVD DM7912NM HA1UZZ PRESS BACK	
SCREW							
		452	353-051A	O	SCREW	SPECIAL	
		463	353-051G	O	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
		465	353-046K	O	SCREW	SPECIAL (3X10 B.K)	
		467	353-046N	O	SCREW,DRAWING	SPECIAL(3X8 BK.)	
.PACKING & ACCESSORY SECTION							
		801	3835RS0060B	O	INSTRUCTION ASSEMBLY	DVD DM7912NM HA1UZZ	
		802	3890R-H819L	O	BOX	DM7921PM HA1UZZ SWM3-A 1.472 4	
		803	3920R-E063A	O	PACKING,CASING	DM6000S 0.02 120 EPS 4 615 128	
		804	292-053D	O	BAG	LVP-1	NSP
		806	6850R-DDA82	O	CABLE,DIN	MDC-18-MMBS1-0 S-VHS SM TECH 1	
		808	841-0021	O	BATTERY,MN	ER03X HI WATT 1.5V .MA/H AAA	
		810	6851R-0033A	O	CABLE ASSEMBLY	1WAY(Y) + 2WAY(R/W) 1.8M + S-V	
		811	6611R1D003A	O	PLUG ASSEMBLY	1WAY RC1-18RRBS1-0 FREE OF CD	
		812	6611R2D003A	O	PLUG ASSEMBLY	2WAY RC2-18RRBS1-0 FREE OF CD_	
.REMOTE CONTROL SECTION							
		900	6711R1N104D	O	REMOTE CONTROLLER ASSEMBLY	N6 NOR DM7912NM HA1UZZ ZENITH	

.ELECTRICAL SECTION

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		BC101	636-004C	O	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BD101	0DD160000DA	O	DIODE	S1WBA60(1A 600V) SHIDENKEN	
⚠		C101	624-088S	O	CAPACITOR,DRAWING	MPX104K ETR/EUROPTRONIC BULK	
⚠		C102	624-088S	O	CAPACITOR,DRAWING	MPX104K ETR/EUROPTRONIC BULK	
		C103	0CE1076Q600	O	CAPACITOR,ELECTROLYTIC	100UF SMS 200V M W BULK	
		C104	624-085D	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C106	0CE1064F638	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C107	0CG2220U630	O	CAPACITOR,SEMI CERAMIC	2200 PF 400V M E R (NK,AD,SD)	
		C108	0CE4744K638	O	CAPACITOR,ELECTROLYTIC	0.47M SRA 50V M FM5 TP(5)	
		C109	0CE108BF630	O	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C110	0CN4730K948	O	CAPACITOR,FIXED TUBULAR(High d	0.047UF D 50V 80%,-20% F(Y5V)	
		C112	0CE3376D638	O	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	
		C113	0CG1020U630	O	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C115	0CE3366K638	O	CAPACITOR,FIXED ELECTROLYTIC	33UF SMS,SG 50V 20% FM5 TP 5	
		C116	0CE477BH630	O	CAPACITOR,AL.ELECTROLYTIC	470UF KME TYPE 25V M FM5 BULK	
		C118	0CE1074F638	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C119	624-087G	O	CAPACITOR	HIGH-VOL 68PF/1KV SMPS SAMHWA	
		C120	0CE1074F638	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C121	0CE2276F638	O	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C122	624-085D	O	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C123	0CE108BF630	O	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C124	0CE337CH618	O	CAPACITOR,FIXED ELECTROLYTIC	330UF SHL,SD 25V 20% FL TP 5	
		C126	0CQ1031Y519	O	CAPACITOR,POLYESTER	0.01UF D 630V K PE NI TP	
		C128	0CQ1042K409	O	CAPACITOR,FIXED FILM	0.1UF S 50V J PE TP	
		C130	0CE1074F638	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C131	0CE1074F638	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C136	0CE1064F638	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C137	0CE3376D638	O	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	
		C201	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C202	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C203	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C206	0CE1074F638	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C207	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C208	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C211	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C212	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C213	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C214	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C215	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C216	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C231	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C232	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C233	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C234	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C239	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C240	0CH1153K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C241	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C243	0CH4561K412	O	CAPACITOR,FIXED CERAMIC(High d	560PF 50V 5% NP0 1608 R/TP	
		C244	0CH4561K412	O	CAPACITOR,FIXED CERAMIC(High d	560PF 50V 5% NP0 1608 R/TP	
		C245	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C251	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C252	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C253	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C254	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		C255	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C257	0CH1105D942	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C258	0CH1105D942	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C259	0CH1105D942	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C260	0CH1105D942	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C261	0CH1105D942	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C262	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C263	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C264	0CH1153K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C265	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C266	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C267	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C268	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C269	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C270	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C271	0CH4391K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 1508 R/TP	
		C272	0CH4391K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 1508 R/TP	
		C273	0CH1333K562	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C274	0CH4471K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C276	0CH4100K112	O	CHIP CAPA CERAMIC M/L T.C F/S	10P 50V D COG 1.6X0.8 R/TP	
		C277	0CH1153K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C278	0CH4270K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C279	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C280	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C281	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C282	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C283	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C291	0CE1074F638	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C292	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C293	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C295	0CE1064F638	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C296	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C297	0CH4101K412	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C401	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C402	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C405	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C406	0CH1105D942	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C407	0CH1105D942	O	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C408	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C409	0CE2264F638	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C410	0CE2264F638	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C411	0CH1102K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C412	0CE1074F638	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C413	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C414	0CE477CD638	O	CAPACITOR,AL.ELECTROLYTIC	470UF SHL,SD 10V M FM5 TP 5	
		C415	0CE2264F638	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C416	0CH1102K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C417	0CE2264F638	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C418	0CH4271K412	O	CAPACITOR,FIXED CERAMIC(HIGH D	270PF 50V 5% NP0 1608 R/TP	
		C419	0CE2264F638	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C420	0CH4271K412	O	CAPACITOR,FIXED CERAMIC(HIGH D	270PF 50V 5% NP0 1608 R/TP	
		C421	0CH4271K412	O	CAPACITOR,FIXED CERAMIC(HIGH D	270PF 50V 5% NP0 1608 R/TP	
		C422	0CH4271K412	O	CAPACITOR,FIXED CERAMIC(HIGH D	270PF 50V 5% NP0 1608 R/TP	
		C423	0CH1392K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	3900PF 50V K Z5U(E) 1608 R/TP	
		C424	0CE2264F638	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		C425	0CH1392K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	3900PF 50V K Z5U(E) 1608 R/TP	
		C426	0CE2264F638	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C502	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C503	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C504	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C505	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C506	0CH4101K412	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C507	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C508	0CH1225F944	O	CAPACITOR,FIXED CERAMIC(Temp.c	2.2UF 16V 80%,-20% Y5V(F) 3216	
		C509	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C510	0CH4101K412	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C511	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C513	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C514	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C515	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C516	0CH1225F944	O	CAPACITOR,FIXED CERAMIC(Temp.c	2.2UF 16V 80%,-20% Y5V(F) 3216	
		C517	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C518	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C519	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C520	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C521	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C522	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C523	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C524	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C525	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C526	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C527	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C528	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C529	0CH1103K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C530	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C531	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C532	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C533	0CH4180K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C534	0CH4330K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C535	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C536	0CH1102K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C537	0CH1102K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C538	0CH1102K562	O	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C539	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C540	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C541	0CE1064F638	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C542	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C543	0CE1064F638	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C544	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C545	0CE1064F638	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C554	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C556	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C557	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C558	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C559	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C560	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C561	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C563	0CE2274C638	O	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C564	0CE2274C638	O	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C565	0CH4221K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		C566	0CH4221K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C567	0CH4221K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C568	0CH4221K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C569	0CH4221K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C575	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C576	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C577	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C578	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C579	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C580	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C581	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C582	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C583	0CE2274C638	O	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C584	0CH4221K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C589	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C592	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C596	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C598	0CE2274C638	O	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C5A1	0CE1064F638	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C5A2	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C5A3	0CH4221K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C5A9	0CH4221K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C628	0CE1054K638	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C629	0CE1054K638	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C630	0CE1054K638	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C631	0CE1054K638	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C632	0CE1054K638	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C633	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C634	0CE2264F638	O	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C635	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C636	0CE4764F638	O	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C643	0CE1054K638	O	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C647	0CE1086C638	O	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C651	0CE1086C638	O	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C655	0CE1086C638	O	CAPACITOR,FIXED ELECTROLYTIC	1000000000 PF SMS,SG 6.3V M FM	
		C659	0CE4775C638	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C663	0CE4775C638	O	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C673	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C674	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C675	0CE1074F638	O	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C676	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C677	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C678	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C679	0CE2274C638	O	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C680	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C681	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C682	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C683	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C696	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C6W1	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C6W2	0CH1104K942	O	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C6W3	0CE1064F638	O	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C6W4	0CH4101K412	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C6W5	0CH4270K412	O	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C6W6	0CH4101K412	O	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		C901	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C905	0CN6810K518	O	CAPACITOR TUBULA(HIGH DIELE)	680P 50V K B TA26	
		C906	0CE1063F638	O	CAPACITOR,AL.ELECTROLYTIC	10M SRE/SE 16V M FM5 TP(5)	
		C907	0CE4763C638	O	CAPACITOR,FIXED ELECTROLYTIC	47UF SRE,SE 6.3V 20% FM5 TP 5	
		C909	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C910	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C911	0CN1040K948	O	CAPACITOR,FIXED TUBULAR(High d	0.1UF D 50V 80%,-20% F(Y5V) TA	
		C912	0CE4763C638	O	CAPACITOR,FIXED ELECTROLYTIC	47UF SRE,SE 6.3V 20% FM5 TP 5	
		C921	0CE4763C638	O	CAPACITOR,FIXED ELECTROLYTIC	47UF SRE,SE 6.3V 20% FM5 TP 5	
		D100	0DD221009AA	O	DIODE,RECTIFIERS	ERA22-10 KFLB,TP ,R T/P,FUJI	
		D102	0DR158220AA	O	DIODE,RECTIFIER	1N5822 BK RECTRON DO201AD 40V	
		D103	0DR310000AA	O	DIODE,RECTIFIERS	RU3YXLF-C1 BK SANKEN D4 100V 2	
		D104	0DD010009AC	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D106	0DR104009AB	O	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR	
		D107	0DD010009AC	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D108	0DD010009AC	O	DIODE	EU01W(R-FORM) TP SANKEN	
		D109	0DR310000AA	O	DIODE,RECTIFIERS	RU3YXLF-C1 BK SANKEN D4 100V 2	
		D110	0DR104009BA	O	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A	
		D111	0DRRE00029A	O	DIODE,RECTIFIERS	1N17 RECTRON TP NON 20V 1A 20	
		D600	0DSRM00118A	O	DIODE,SWITCHING	DAP202K T146 ROHM R/TP SMD 80V	
		D670	0DR104009BA	O	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A	
		DIG901	6302R-V124A	O	DIGITRON	7-BT-285GN FUTABA SEG VFD 5 CH	
⚠		F101	0FS1601B51B	O	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL KS /	
		F102	0RF0200F708	O	RESISTOR,VARIABLE[CARBON FILM]	0.2 OHM 1/6 W 10% TA26	
		F103	874-000T	O	WIRE COPPER TIN COATED	D=0.6 ROLL	
		F105	874-000T	O	WIRE COPPER TIN COATED	D=0.6 ROLL	
		F501	6200JB8010V	O	FILTER(CIRC),EMC	LFA20-2A1E473MT MITSUBISHI MAT	
		F502	6200JB8010V	O	FILTER(CIRC),EMC	LFA20-2A1E473MT MITSUBISHI MAT	
		F605	6200HJC901A	O	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F606	6200HJC901A	O	FILTER(CIRC),EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		FH101	586-008B	O	HOLDER	FUSE CLIP TP SINSUNG	
		FH102	586-008B	O	HOLDER	FUSE CLIP TP SINSUNG	
⚠		IC101	0IPMGIH004A	O	IC,POWER MANAGEMENT	ICE2B0565 INFINEON 8PIN DIP ST	
⚠		IC102	657-063A	O	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC103	0IPMGFA017A	O	IC,POWER MANAGEMENT	KA78R12TSTU FAIRCHILD 4P TO-22	
		IC104	0IKE431000A	O	IC,KEC	KIA431 3 PIN TP	
		IC105	0IPMGFA016A	O	IC,POWER MANAGEMENT	KA78R08TSTU FAIRCHILD 4P TO-22	
		IC106	0IPMGFA015A	O	IC,POWER MANAGEMENT	KA78R33TSTU FAIRCHILD 4P TO-22	
		IC201	0ILNRNF006A	O	IC,LINEAR	MT1336E MEDIATEK INCORPORATION	
		IC202	0IPRPSA010A	O	IC,PERIPHERALS	LA6560-A-TE-L SANYO HSOP-36R R	
		IC203	0ILNRFA023A	O	IC,LINEAR	FAN8082DTF FAIRCHILD 8PIN SOP	
		IC401	0IPRPCI003B	O	IC,PERIPHERALS	CS4391-KZR CIRRUS LOGIC 20 TSS	
		IC402	0IJR458000B	O	IC,JRC	NJM4580M 8,DMP8 TP OP AMP 2K/R	
		IC501	0ILNRNF007B	O	IC,LINEAR	MT1379DEC MEDIATEK INCORPORATI	
		IC502	0IMMREB006A	O	IC,MEMORIES	M12L16161A-7T-TI ELITE MEMORY	
		IC503	0IMMREB006A	O	IC,MEMORIES	M12L16161A-7T-TI ELITE MEMORY	
		IC505	0ISS240210A	O	IC,SAMSUNG ELECTRONICS	S524A40X21-SCT0 SOP8 TP EEPROM	
		IC510	0IFA742440F	O	IC,FAIRCHILD	MM74HCT244SJ 20P SOIC TP 3-STA	
		IC5A1	0IMMRFU011A	O	IC,MEMORIES	MBM29LV160TE-70PFTN FUJITSU 48	
		IC604	0IPRPMT008A	O	IC,PERIPHERALS	MM1623XFBE MITSUMI 28PIN SOP R	
		IC901	0IMCRHY031D	O	IC,MICRO CONTROLLER	GMS81C2012-HI019 HYNIX 64 QFP	
		IC902	0IKE704200B	O	IC,KEC	KIA7042P 3P 4.2V RESET(TAPING)	
		JK602	6612JH003JA	O	JACK,RCA	RCA/DIN-30G YUQIU FOR DVD6000	
⚠		L101	616-145M	O	FILTER(CIRC),DRAWING	V-04350 LS FUTAI BULK =616-145	
		L102	633-088D	O	COIL,CHOKE	CHOCK ,20UH KWANGSUNG LEAD CU	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		L103	633-088G	O	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L105	633-088G	O	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L201	0LR0102J025	O	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L202	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L203	0LR0102J025	O	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L204	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L231	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L251	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L401	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L403	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L501	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L502	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L504	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L510	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L602	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L673	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L674	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L6F1	6200HJC102A	O	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L901	0LR1000K035	O	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L902	0LR1000K035	O	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		LED901	0DL325319AA	O	LED	SPR325MVWT31 TP ROHM GREEN/RED	
		Q101	0TR319809AC	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q102	0TR105009AD	O	TRANSISTOR,BIPOLARS	KRA105M KEC TP TO92 50V 100MA	
		Q107	0TR115100AA	O	TRANSISTOR	KSB1151-Y BK SAMSUNG TO-126	
		Q108	0TR319809AC	O	TRANSISTOR	KTC3198-TP-BL (KTC1815)KEC	
		Q201	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q202	0TRRH80042A	O	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q203	0TRRH80042A	O	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q204	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q205	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q206	0TR103009AA	O	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q501	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q600	0TR150409AC	O	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q601	0TR103009AC	O	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q602	0TR103009AC	O	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q603	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q604	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q605	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q606	0TR387509AC	O	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q902	0TR103009AE	O	TRANSISTOR,BIPOLARS	KRC103M(KRC1203) KEC TP TO92M	
		R100	0RD1504H632	O	RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10	
		R101	614-007A	O	RESISTOR	2.7/2W CEMENT SMPS V	
		R103	0RS5602K619	O	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	
		R107	0RS0600K619	O	RESISTOR,FIXED METAL OXIDE FIL	0.6 OHM 2 W 5% TR	
		R108	874-000T	O	WIRE COPPER TIN COATED	D=0.6 ROLL	
		R109	0RD2203F608	O	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R110	0RD2203F608	O	RESISTOR,FIXED CARBON FILM	220K OHM 1/6 W 5% TA26	
		R112	0RD0392F608	O	RESISTOR,FIXED CARBON FILM	39 OHM 1/6 W 5% TA26	
		R114	0RD1003F608	O	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R115	0RD0182F608	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R116	0RD0182F608	O	RESISTOR,FIXED CARBON FILM	18 OHM 1/6 W 5.00% TA26	
		R120	0RD4702F608	O	RESISTOR,FIXED CARBON FILM	47K OHM 1/6 W 5% TA26	
		R121	0RD1201F608	O	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R122	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R123	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		R124	0RD1800F608	O	RESISTOR,FIXED CARBON FILM	180 OHM 1/6 W 5% TA26	
		R125	0RD3901F608	O	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA26	
		R126	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R127	0RN3601E408	O	RESISTOR,FIXED METAL FILM	3.6K OHM 1/8 W 1.00% TA26	
		R128	0RN3301E408	O	RESISTOR,FIXED METAL FILM	3.3K OHM 1/8 W 1.00% TA26	
		R129	874-000T	O	WIRE COPPER TIN COATED	D=0.6 ROLL	
		R130	0RD1002F608	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R131	0RD2201F608	O	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R132	0RD1002F608	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R140	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R142	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R145	0RD4700F608	O	RESISTOR,FIXED CARBON FILM	470 OHM 1/6 W 5% TA26	
		R201	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R202	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R203	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R204	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R205	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R206	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R207	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R208	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R209	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R210	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R211	0RH0221C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R212	0RJ7503C677	O	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R213	0RH3903C622	O	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R214	0RJ7503C677	O	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R215	0RH3903C622	O	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R216	0RH0101C622	O	RESISTOR,METAL GLAZED(CHIP)	1 OHM 1 / 16 W 1608 5.00% D	
		R217	0RH0221C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R218	0RH0221C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R220	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R221	0RH0272C622	O	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R231	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R232	0RH2201C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R233	0RH0221C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R234	0RH0221C622	O	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R235	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R236	0RH1502C622	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R237	0RH2702C622	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R238	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R239	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R240	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R241	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R242	0RH2702C622	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R243	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R244	0RH1502C622	O	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R245	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R246	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R247	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R248	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R251	0RH3302C622	O	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R252	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R253	0RH2702C622	O	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R254	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R255	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		R256	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R257	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R258	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R259	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R260	0RH4702C622	O	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R261	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R262	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R2D1	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R2D2	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R401	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R407	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R408	0RH4700C622	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R409	0RH4700C622	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R410	0RH4700C622	O	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R411	0RH1801C622	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R412	0RH7501C622	O	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R413	0RH1801C622	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R414	0RH5601C622	O	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R415	0RH8201C622	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R416	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R417	0RH8201C622	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R418	0RH7501C622	O	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R419	0RH1801C622	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R420	0RH7501C622	O	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R421	0RH8201C622	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R422	0RH1801C622	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R423	0RH8201C622	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R424	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R425	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R487	0RH7501C622	O	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R501	0RH8201C622	O	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R502	0RJ7503C677	O	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R503	0RH0471C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R504	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R505	0RH0471C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R506	0RH0471C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R507	0RH1801C622	O	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R508	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R509	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R510	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R511	0RH1802C622	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R512	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R513	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R515	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R516	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R517	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R518	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R519	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R520	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R521	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R522	0RH0332C622	O	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R523	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R524	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R525	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R526	0RH1000C622	O	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		R527	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R528	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R529	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R534	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R535	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R536	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R564	0RH1802C622	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R565	0RH1802C622	O	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R566	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R567	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R573	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R574	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R575	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R576	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R577	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R578	0RH3300C622	O	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R579	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R580	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R581	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5A3	0RH1201C622	O	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R5A7	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5A9	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R621	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R622	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R623	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R624	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R625	0RH1002C622	O	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R626	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R627	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R628	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R629	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R634	0RH1001C622	O	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R635	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R636	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R640	0RH1500C422	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R643	0RH1500C422	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R649	0RH1500C422	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R652	0RH1500C422	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R655	0RH1500C422	O	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R656	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R661	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R662	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R663	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R664	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R665	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R666	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R691	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R695	0RH4701C622	O	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R696	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R697	0RH2200C622	O	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R698	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R699	0RH1003C622	O	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R6W1	0RH1100C622	O	RESISTOR,METAL GLAZED(CHIP)	110 OHM 1 / 16 W 1608 5.00% D	
		R6W2	0RH0752C622	O	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R6W3	0RH0222C622	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA NO	LG PART NO	A	DESCRIPTION	SPECIFICATION	REMARKS
		R6W4	0RH1100C622	O	RESISTOR,METAL GLAZED(CHIP)	110 OHM 1 / 16 W 1608 5.00% D	
		R6W5	0RH0222C622	O	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R735	0RH0000C622	O	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R901	0RD6800F608	O	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		R910	0RD6800F608	O	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		R911	0RD8200F608	O	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5% TA26	
		R912	0RD1201F608	O	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R913	0RD1501F608	O	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R914	0RD2201F608	O	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R915	0RD3301F608	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R925	0RD1002F608	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R926	0RD1002F608	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R933	0RD3300F608	O	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	
		R939	0RD2200F608	O	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R940	0RD3301F608	O	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R941	0RD1002F608	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R942	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R944	0RD1002F608	O	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R991	0RD1001F608	O	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		RC901	6712R1538GF	O	REMOTE CONTROLLER RECEIVER	TSOP2438KU1 VISHAY 38KHZ =TSOP	
		SW901	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW902	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW906	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW907	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW908	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW909	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW910	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW911	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW912	556-219B	O	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
⚠		T101	6170RNGW22B	O	TRANSFORMER,SMPS[COIL]	EE2621 FEELUX/SAMWHA/SOOJUNG	
⚠		V101	656-004C	O	VARISTOR,DRAWING	SVC681D-10A SAMHWA 4.O CUT	
		X501	6202R-BL06C	O	RESONATOR,CRYSTAL	HC-49/S BUBANG 27MHZ 20PPM 1	
		X901	6212BA3004A	O	RESONATOR,CERAMIC	CSTLS6M00G53-A0 MURATA 6MHZ +/	
		ZD101	0DZ560009CJ	O	DIODE,ZENERS	GDZJ5.6B 26MM GRANDE TP26 DO34	
		ZD102	0DZ332609FB	O	DIODE,ZENERS	GDZJ3.3B 26MM GRANDE TP26 DO34	
		ZD103	0DZ240009AF	O	DIODE,ZENERS	GDZJ24B GRANDE TP26 DO34 0.5W	
		ZD201	0DZPH00108A	O	DIODE,ZENERS	BZX84-C4V7 PHILIPS R/TP SOT23	
		ZD510	0DZ562609AA	O	DIODE,ZENER	GDZJ5.6B 26MM TP GRANDE DO34	